





2.





3. Simply the Best.

The all new Digi-View Gold is the best video digitizer for the Amiga. Period. Nothing else even comes close. Why? The secret is that Digi-View Gold captures 2.1 million colors in memory, giving you an incredible 100,000 apparent colors on screen simultaneously.

And it's easy to use. Just focus your video camera on any object or picture, and in seconds Digi-View Gold turns it into Amiga graphics that glow with vibrant color and clarity. Whether you are creating graphics for desktop publishing, presentations, video, or just for fun, Digi-View Gold gives you dazzling images with amazing simplicity.

Digi-View Gold is designed specifically for the Amiga 500 and 2000, and plugs directly into the parallel port. Digi-View Gold's powerful image capture and manipulation software (version 3.0) now has complete control of color and sharpness, full overscan, extra halfbrite, and a special line art mode for desktop publishing.

Circle 119 on Reader Service card.

*Requires standard gender changer for use with Amiga 1000. Video camera required; not included. NewTek sells a video camera, copy stand, and the Digi-Droid automated filter wheel for Digi-View Gold. If your local retailer doesn't carry these products, call us at 913-354-1146. Digi-View Gold is a trademark of NewTek, Inc. Amiga is a trademark of Commodore-Amiga, Inc. Be seeing you!!

Only Digi-View Gold:

- Can digitize in all Amiga resolution modes from 320x200 up to 768x480 (full hi-res overscan)
- Uses 2 to 4096 colors (including extra halfbrite)
- Uses exclusive Enhanced HAM for super fine detail
- Is 100% IFF compatible and works with any graphics software
- Can digitize 21 bits per pixel (2.1 million colors) for the highest quality images possible
- Has advanced dithering routines that give an apparent 100,000 colors on screen simultaneously
- Has powerful Image processing controls for complete IFF picture manipulation

If you want the highest quality graphics for your Amiga, as easy as 1, 2, 3; then you need the new version of the best selling video digitizer of all time: Digi-View Gold.

Only \$199.95

Digi-View Gold is available now at your local Amiga dealer.

Or call 1-800-843-8934





You Don't Need a \$5000 Laser Printer to use Professional Page.

Introducing Professional Page V1.3 with Compugraphic Outline Fonts.

Tou can now use Gold Disk's Professional Page to output to dot matrix, inkjet, Deskjet, and LaserJet printers, with remarkable results. You'll see smooth fonts, jaggie-free lines, and crisp, vibrant colors.

Gold Disk has brought AGFA Compugraphic's IntelliFont technology to the Amiga. You can now use Professional Page to output your pages to any Preferences supported printer at its maximum resolution.

And with Gold Disk's proprietary font caching system, you'll see those same smooth, jaggie-free fonts on screen as you edit. Order yours today!



GOLD DISK

P.O. Box 789. Streetsville, Mississauga, Ontario Canada L5M2C2 (416) 828-0913

This Ad was created in Professional Page V1.3 using Compugraphic Fonts and a Professional Draw illustration and output at 180 dpi from an HP PaintJet.

Circle 177 on Reader Service card.

Arcade adventure

Fast-paced, exciting combat demands the use of all your wits and endurance to best a world teeming with assassins, wizards and monsters. Expe-

rience captivating graphics of an unprecedented calibre. Relentless opponents will hone your combat skills to a razor's edge. A simple yet powerful menu and icon interface provides effortless interaction with the world and its people, while the incredibly smooth

> animation presents a continuous panorama of action and adventure.

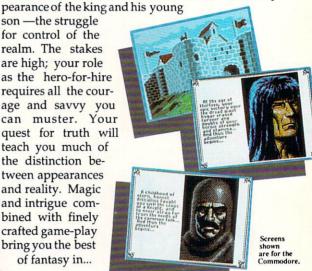


Fantasy

Astonishing realism is yours through scores of unique characters and sophisticated conversations. Immerse yourself in the sights and sounds

of an ancient world embroiled in turmoil—the disap-

son —the struggle for control of the realm. The stakes are high; your role as the hero-for-hire requires all the courage and savvy you can muster. Your quest for truth will teach you much of the distinction between appearances and reality. Magic and intrigue combined with finely crafted game-play bring you the best of fantasy in...



...Times of Lore

Stunning graphics and animation

Fast-paced combat action

Dynamic conversations

Compelling plot



Available for the IBM-PC/Tandy/compatibles, Apple II Series, Commodore 64/128, Amiga and Atari ST.

solitude of the

To get your copy of Times of Lore, either

1) visit your local retailer, 2) call 1-800-999-4939 8am to 5pm EST to order by VISA/

3) mail check (U.S. \$) or VISA /MC#, cardholder name and expiration date to Origin. All versions \$39.95 plus \$2.50 shipping and handling. Allow 1-2 weeks for delivery.

Times of Lore is a trademark of Origin Systems, Inc.



136-B Harvey Road, Londonderry, NH 03053

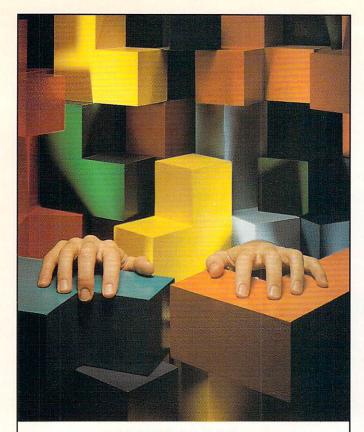
$\cdot C \cdot O \cdot N \cdot T \cdot E \cdot N \cdot T \cdot S \cdot$

FEATURES			M2DEBUG (Avant-G A nifty symbolic debu
Top of the Midway	22		the Benchmark: Mode
may not be able to please all of the peo- ple all of the time, but we're sure going to give you your money's worth in our critical evaluations of 1989's Top 20 Amiga games.			Spirit Software) Do-it-yourself floppy- ment could save you costs.
GHOSTS OF GAMES FUTURE By Steve Peterson	34		I.C.E. (King Publish Create customized mutors and add them to
in the charts next season and in years to come? We've done some educated crystal-ball gazing to give you an idea of what the future holds in store.			FINDEX V (E. Arthu A flexible, free-form a base management.
THE GREAT AMIGAWORLD GAMES BUYER'S GUIDE Compiled by			GA
Jan Jackson	39	Amiga entertainment software has grown so fast that it is, literally, almost impossible to keep track	THE GAME PRESE B.G. Hunter
ARTICLES		of it. To help all Amiga game enthusiasts,	Game reviews follow l
PICK A PATH By Louis R. Wallace Upgrading your Amiga 500's memory is not just a matter of deciding how much extra memory you want. Your method of memory expansion is a crucial considera-	66	AmigaWorld has added a separate Games Buyer's Guide (covering more than 500 titles) to our annual November Games Special—just in time for the Holiday shopping season!	SIMCITY (Praxis / B POPULOUS (Electron Two of the more talked games square off in a feel is the ultimate game
tion as well.		NOTEPAD 10	WAR IN MIDDLE I
COLUMNS		The Amiga shows up at a gala laser/music show at Sea World in Texas and in a Shake-spearian production in California.	Travel with the Hobb journey to Mount Do
CHIEF CONCERNS By Doug Barney We're not sure about this new guy here at the helm of AmigaWorld, but he sure	. 6	WHAT'S NEW?	KIKUGI (Image Tech A battle of wits, not sv
likes to shoot from the hip when it comes to making sure Commodore keeps up its efforts to support the Amiga community.		HORS D'OEUVRES	SPEEDBALL (Spotlig Fast action in a 21st-co
ACCENT ON GRAPHICS By Joel Hagen	74	HELP KEY	hockey and handball.
Extend that unique feel of monochromatic painting to the full 32 colors available in your paint program.	••	Lou brings a Mayflower-full of technical teasers to the Thanksgiving table.	GRAND PRIX CIRC A finely detailed auto- five levels of competiti
INFO.PHILE By Mark L. Van Name and	-0	REVIEWS	
Bill Catchings	78	DIGI-PAINT 3 (NewTek)	MYSTERY SWEE CONSOLATION V
valuable time in automating many routine command procedures.		MUSIC-X (MicroIllusions)	If you weren't one winners (see last me Mystery Sweepstak
DEPARTMENTS		ONLINE! PLATINUM (Micro-Systems	one of the more that Prizes. You might ju
REPARTEE	. 8	A versatile new version of the well-known communications package.	your name on page

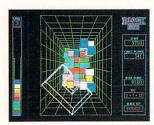
M2DEBUG (Avant-Garde Software) 103 A nifty symbolic debugger companion to the Benchmark: Modula-2 compiler.	}
AMI ALIGNMENT SYSTEM (Free Spirit Software)	
I.C.E. (King Publishing)	}
FINDEX V (E. Arthur Brown))
GAMES	
THE GAME PRESERVE By B.G. Hunter	
SIMCITY (Praxis / Broderbund) vs. POPULOUS (Electronic Arts)	1
WAR IN MIDDLE EARTH (Melbourne House)	}
KIKUGI (Image Tech))
SPEEDBALL (Spotlight / Cinemaware) 92 Fast action in a 21st-century synthesis of hockey and handball.	!
GRAND PRIX CIRCUIT (Accolade) 94 A finely detailed auto-racing game with five levels of competitive difficulty.	ŀ

PS WINNERS

of the Finalist Prize onth's issue) in our es, maybe you did win an 140 Consolation ust get lucky and see 76.



WATCH OUT FOR FALLING BLOCKS



Be Careful! You will be buried alive by the addictive 3-D challenge of BLOCKOUT.

As the 3-D blocks appear, flip, rotate and maneuver them into

position as they fall into the playing pit. Fit them together to complete layers, and you'll steadily clear your way out. But, make one false move, and you'll be buried in blocks.

Plus, with more and more complex sets of blocks, faster and faster action and hundreds and hundreds of pits, there's a version of BLOCKOUT for every player.

Contact your local dealer for details.

Available for IBM PC®, TANDY®, AMIGATM, and MACINTOSHTM computers.

BLOCKOUT is a trademark of Kadon Enterprises, Inc., and is used by permission. California Dreams. 780 Montague Expressway, #403, San Jose, CA 95131 (408) 435-1445 ©1989 Logical Design Works, Inc.,



STEPHEN ROBBINS, Publisher

DOUGLAS BARNEY, Editor-In-Chief
DAN SULLIVAN, Executive Editor
SHAWN LAFLAMME, Managing Editor
LOUIS R. WALLACE, Senior Editor, Technology
LINDA J. BARRETT, Acquisitions Editor
BARBARA GEFVERT TYSON, Review Editor
JAN JACKSON, New Products Editor
TIM WALSH, Technical Editor

GENE BRAWN, BILL CATCHINGS, DAVID T. McCLELLAN, MARK L. VAN NAME, Contributing Editors

HOWARD G. HAPP, Art Director
ROGER GOODE, Assistant Art Director
ANNE DILLON, Designer
LAURA JOHNSON, Designer
ALANA KORDA, Production Supervisor

KENNETH BLAKEMAN, National Advertising Sales Manager
MICHAEL MCGOLDRICK, Sales Representative
BARBARA HOY, Sales Representative
HEATHER PAQUETTE, Associate Sales Representative,
InfoMarket Sales, 1-800-441-4403, 603-924-9471
LINDA M. BUSSIERE, Advertising Coordinator
GIORGIO SALUTI, Associate Publisher, West Coast Sales 1-415-328-3470
3350 W. Bayshore Road, Suite 201 Palo Alto, CA 94303
SHELLEY HARMON, Associate Sales Representative,
InfoMarket Sales, 415-328-3470

WENDIE HAINES-MARRO, Marketing Manager LAURA LIVINGSTON, Marketing Coordinator MARGOT L. SWANSON, Advertising Assistant

SUSAN MAIZEL, Customer Service Representative



ROGER J. MURPHY, President

STEPHEN D. TWOMBLY, Executive Vice President/Publishing Director

DENNIS S. CHRISTENSEN, Vice President of Manufacturing/Operations

LINDA PALMISANO, Typesetting Manager

DEBRA A. DAVIES, Typographer

SUSAN GROSS, Corporate Production Manager LYNN LAGASSE, Manufacturing Manager

LINDA RUTH, Single Copy Sales Director

JOHN T. CHILDS, Single Copy Sales Manager 800-343-0728

DEBBIE WALSH, Newsstand Promotion Manager

PAUL RUESS, Circulation Director 800-365-1364
PAM WILDER, Assistant Circulation Manager
WILLIAM M. BOYER, Director of Credit Sales & Collections

AmigaWorld (ISSN 0883-2390) is an independent journal not connected with Commodore Business Machines, Inc. AmigaWorld is published monthly by IDG Communications/Peterborough, Inc., 80 Elm St., Peterborough, NH 03458. U.S. subscription rate is \$29.97, one year; \$46.00, two years; \$64.00, three years. Canada \$38.97 (U.S. funds), one year only. Mexico \$38.97, Foreign Surface \$49.97, Foreign Airmail \$84.97 (prepayment is required on Foreign Surface and Airmail subscriptions in U.S. funds drawn on U.S. bank). All rates are one-year only. Second class postage paid at Peterborough, NH, and at additional mailing offices. Phone: 603-924-9471. Entire contents copyright 1989 by IDG Communications/Peterborough, Inc. No part of this publication may be printed or otherwise reproduced without written permission from the publisher. Postmaster: Send address changes to AmigaWorld, Subscription Services, PO Box 58804, Boulder, CO 80322-8804. Nationally distributed by Kable News Co. AmigaWorld makes every effort to assure the accuracy of articles, listings and circuits published in the magazine. AmigaWorld assumes no responsibility for damages due to errors or omissions.

Two Boards, One Slot!

SCSI Hard Disk Controller and 2MB Fast RAM Expansion in a Single A2000 Slot

The Proven GVP SCSI + 2 Multi-Function Board gives you more for less! Compare:

EFFICIENCY SCSI controller and 2MB FAST RAM expansion on a single board saves a valuable A2000 slot.

PERFORMANCE Well-known and proven high performance GVP SCSI controller.

PRICE Fully populated with 2MB of RAM, it costs less than other 2MB RAM Expansion ONLY boards. Look at the SCSI controller as a free bonus! Or buy it without RAM at the price of a SCSI controller, and populate RAM later! Save even more when bundled with a GVP drive.

QUALITY Backed up by GVP's unique full one year warranty.

Also available from GVP:

- 1. A3001 Upgrade Kit 25 Mhz 68030 Accelerator 8MB 32-Bit Wide RAM Expansion
- 2. Removable Hard Drive 44MB Removable Storage
 - 3. Hard-Disk-on-a-Card Saves a Peripheral Bay
 - 4. Hard Disk Drives 20, 30, 40, 43, 45, 80, 100MB

High Performance Hard Disk Drive SCSI Controller

2MB Memory Expansion

> Amiga is a registered trademark of Commodore-Amiga Inc. IMPACT and GVP are trademarks of Great Valley Products, Inc.

SCSI + 2 Multi-Function Board. Technical Highlights:

- High performance AUTOBOOTing SCSI controller supports up to seven SCSI devices.
- Internal and external SCSI connectors.
- DMA to/from drive to onboard 16K SRAM buffer provides high performance not affected by overscan or blitter DMA.
- Zero or 2MB of zero-waitstate AUTOCONFIGured FAST RAM Expansion.
- Optional Removable media support EPROMs with auto "diskchange" feature for Syquest and Bernoulli drives.

GREAT VALLEY PRODUCTS INC.

For more information, or for your nearest GVP dealer, call today. Dealer inquiries welcome.

FAX (215) 889-9416 • (215) 889-9411 • BBS (215) 889-4994

CHIEF CONCERNS

A call to action.

IT HAS BECOME a familiar and all too disturbing adage: "Commodore has the best engineering and the worst marketing." Everybody, it seems, knows what Commodore has done wrong, and not suprisingly, most of these same folks have advice for Commodore.

Everybody is right. Commodore needs help, and it ain't their engineering department that's ailing. The company has utterly failed to give the best PC in the business adequate visibility. The one million Amiga owners were resourceful enough to find out about the machine on their own, and made the wise choice to buy one.

The noises that are starting to come from Commodore are encouraging. The firm is committed to increasing the Amiga's visibility, working with third parties to make sure important half-finished products make it to market, and is working on some exciting new technologies that will keep the Amiga clearly ahead of the PC pack.

The firm also has a new, highly motivated crew with impressive resumes. These guys have been hard at work. They are planning an expanded and more consistent ad campaign, are insuring that dealers are competent, and are committed to gaining the ever-precious customer mindshare.

I think it will work. I wouldn't have left the safe confines of the general PC market if I didn't believe that Commodore has a real shot at the big time.

The time is now for Commodore to make its move. The IBM and Apple PR machines are cranked up, and are attacking areas that the Amiga dominates, such as multimedia, desktop video, and animation. Unfortunately, the naive computer press is giving the world the impression that these firms are inventing these categories, and that



these are "future" technologies.

Hogwash! We all know that the Amiga has been excelling in these areas for years. It is up to Commodore to let the rest of the world in on this secret. If it doesn't, then customers will buy Macintoshes for advanced applications such as video. Then they'll watch helplessly as the machine sucks up all their cash reserves, only to bog down while processing the simplest of images.

Here's what Commodore needs to do more of. Fortunately, it is already starting to crackle. President Harry Copperman recently paid personal visits to the major trade publications that are now discovering these new application areas. You may be wise enough not to read these magazines, but about a zillion potential customers do.

He also went armed with a strategy. He brought a long list of customers (maybe even you!) who can demonstrate that the Amiga is the best machine ever made. Loaner machines are being sent out so these newshounds can see for themselves how pathetic other machines are when compared to the Amiga.

Commodore also needs to respond every time the press ignores the Amiga when writing about applications that originated on the Amiga. It makes me sick to see Apple get the credit for inventing multimedia. It is even more sickening to hear some PC review lunkhead froth at the mouth over a black-and-white animation package for the Mac.

We reached the height of ridiculousness when the NEXT machine from Steve Jobs was introduced. Here was an example of hero worship at its worst. Jobs spends years developing a machine that is a blatant rip-off of the Amiga, and proceeds to get more press coverage than Gorbachev.

The only difference between a NEXT machine and an Amiga is that the Amiga has color, software applications, users, and actually works. The NEXT machine, meanwhile, costs five to ten times as much, has an installed base of about 25, and, let's face it, really isn't finished yet.

The most painful instances, though, involve more generic technologies like multitasking. IBM and Microsoft grabbed countless gobs of headlines with OS/2. After years of hype, OS/2 proceeded to fall flat on its multitasking face. Where was the Amiga during all this? Patiently and quietly multitasking away.

Commodore also has to convince the major PC software vendors that one million machines equals opportunity. Some of these jokers are writing for true niche machines like Sun workstations (no more than 200,000 installed, I'd bet) and the NEXT machine (you could fit its installed base in a Volkswagen Beetle). Participation by major vendors would mean mainstream software for the Amiga, and a shot at the huge general-purpose business market that continues to suffer under the yoke of IBM PC tyranny.

Come on, Commodore. The Amiga deserves better. Fortunately, we think with the new crew, it is starting to get it! ■

-Doug Barney

A3001

BREAKING THE SPEED BARRIER
New 25Mhz 68030 Upgrade Kit from GVP
Puts Tomorrow's Performance in Your A2000 Today

FPU with fully implemented BURST mode 32-bit memory. An order of magnitude faster than A2500.

WER Up to 8MB of State-of-the-art NIBBLE MODE 32-bit DRAM memory averages zero waitstates during 68030 BURST mode.

FIGIENCY Built-in Hard Disk Controller direct on 32-bit bus keeps ALL A2000 expansion slots free even when our hard disk is installed!

LITY Backed up by GVP's unique full one year warranty.

G002 (San)

25 Mhz 68030 Accelerator

8MB 32-bit Wide Ram Expansion

IMPACT Hard Disk Drive

A3001, 25Mhz 68030/68882 **Upgrade Kit Technical Highlights:**

- Asynchronous 68030 design allows high clock rates and GENLOCK compatibility.
- Factory installed 25Mhz 68882 floating point processor, twice as fast as the older 68881 chip.
- Fully DMA-able AUTOCON-FIGured 32-bit wide memory. Up to 8MB.
- Built-in AUTOBOOTing hard disk controller supports up to two 40 or 80MB drives (11/19ms access).
- Selectable 68000 fall-back mode for full floppy-based game compatibility.

GREAT VALLEY PRODUCTS INC.

For more information, or for your nearest GVP dealer, call today. Dealer inquiries welcome. FAX (215) 889-9416 • (215) 889-9411 • BBS (215) 889-4994

Dealers Circle 245 on Reader Service Card

Amiga is a registered trademark of Commodore-Amiga Inc. IMPACT and GVP are trademarks of Great Valley Products, Inc.

225 Plank Ave., Paoli, PA 19301

Consumers Circle 127 on Reader Service Card

REPARTEE

Comments, complaints, and concerns

from AmigaWorld readers.

DISKMASTER DEVOTEE

I WAS SHOCKED and disappointed to see Bill Catchings' and Mark Van Name's haphazard and misleading review of DiskMaster, one of the best Amiga disk-utility programs available, in your September '89 issue [info.phile, p. 56].

The authors state that Disk-Master cannot display a file in hex. This is not true. By clicking the right mouse button on the READ command, the command is switched to HEXREAD, which displays a file in hex with ASCII interpretation at the right. Both the regular file reader and hex file-reader functions provide convenient, smooth mouse scrolling as well as scrolling with the up and down keys.

While it is true that Disk-Master does accept the convenient "*" wild card for pattern matching (as ARP does), it *also* accepts the strange AmigaDOS "?" and "#?" pattern definitions, too.

The authors also state that DiskMaster is less robust than CLImate, because they found themselves "losing control" of DiskMaster while the program hung. I will admit that I have seen this bug, but as a very heavy user of DiskMaster, I have only seen this problem about three or four times in almost a year of use. I don't consider it a serious problem. I think it is misleading to

characterize DiskMaster as a buggy, unreliable program.

I admit that the documentation could stand some improvement. No doubt this is why the authors missed the HEXREAD function and did not realize that the program can use wild cards.

DiskMaster provides a great deal of easy user programmability of its many features, functions, and device gadgets. It has greater display capacity with real-time scroll gadgets in both vertical and horizontal directions than any other similar program I've seen. It gives you a one-stop source for almost any disk and file operations imaginable.

> René LeBlanc Scottsdale, AZ

We have heard from a number of users who like DiskMaster. We also agree that it has a lot of complex features. The problem with DiskMaster, as René LeBlanc concedes, is that the six-page manual does not adequately describe these features.

We also view bugs that cause utility programs to hang as very serious. These two factors make DiskMaster unsuitable for the average user.

—Bill Catchings and Mark Van Name Contributing Editors

AMIGA GRAPHS

IN THE REPARTEE section of your August '89 issue, Dr. Fred Klein notes the lack of

scientific plotting and graphics packages for the Amiga ["Scientific Graphics, p. 8]. I would like to point out that it is not simply a null field.

MaxiPlan Plus, an Amiga spreadsheet, can produce graphs. Graphics files created by MaxiPlan conform to the Amiga's Interchangeable File Format (IFF) protocol, and hence are portable to all conforming programs, such as DeluxePaint, excellence!, or PageStream.

MaxiPlan Plus has much greater graphing capability than the Macintosh program Excel (v. 1.5). Yet, I know of no Amiga equivalent to the Macintosh program Cricket Graph. Hence, I would like to second Dr. Klein's call for more scientific word processing, plotting, and data-analysis software for the Amiga. After all, it is the capability of the Amiga as a function of cost that makes the machine attractive for scientific work.

Frank Murray, Ph.D.
Claremont, CA

THE MISSING LINK

YOUR ARTICLE ON ARexx ["ARexx: The Missing Link," Aug. '89, p. 30] was right on target. The Amiga is perfectly suited to hypermedia, and if Commodore can act quickly to implement ARexx in the system software, I think that the Amiga will enjoy a new level of

recognition by professional non-Amiga users.

Robert Anderson Hamilton, Ontario Canada

KEYBOARD ENTHUSIAST

I APPRECIATE THE benefits of having both a Command Line and Graphic User Interface. I would like to make a recommendation that I believe would make Amiga applications easier to use: allow keyboard selection of options in requester boxes. For applications that rely on the keyboard, this would prevent having to take your hand off the keyboard to select an option with the mouse.

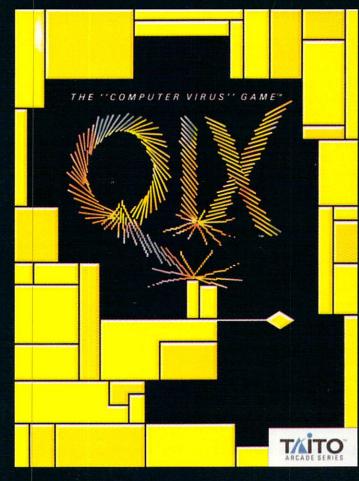
One example is IBM's Common User Access (CUA) method, which is their interface guideline for the Systems Application Architecture (SAA). It is very similar to the Apple Macintosh interface; operations can be performed with either the mouse or the keyboard.

I believe that giving users the alternative of keyboard selection would improve the Amiga interface.

W. James Roscoe Regina, Saskatchewan Canada

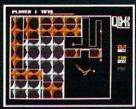
Send your letters to: Repartee, *AmigaWorld* Editorial, 80 Elm St., Peterborough, NH 03458. Letters may be edited for space and clarity. ■

CAN YOU KICK THE QIX® ADDICTION?

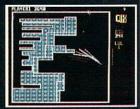


When QIX fever strikes, there is no cure! Like the mindblowing arcade original, QIX is a computer virus that

lives deep inside your computer, attacking without warning. Construct a trap in any one of the billions of configurations possible to immobilize QIX. But watch out for SPARX™ and SPRITZ™ and other deadly energy forms! In this electrical world of high-tech infections, mental dexterity and superior strategy are basic to survival. The practice mode turns beginners into addicts. No one is immune! Get your QIX before QIX gets you!



Actual Atari screen.



Actual C/64 screen.



Actual Amiga screen.



If you cannot find this product at your local retailer, Visa/Mastercard holders can order direct anywhere in the United States by calling toll free 1-800-663-8067.

Taito PARX™ and SPRITZ™ are trademarks of Taito America Corporation. Copyright ©1989. All rights reserved. Atari, Commodore, and Amiga are registered trademarks respectively of Atari Corporation, Commodore Electronics, Inc., and Commodore-Amiga, Inc.

NOTEPAD

Compiled by Linda Barrett



Even lasers need Amiga control.

EVERY EVENING AT dusk, visitors to Sea World of Texas file into the park's circular amphitheater. Here, where just hours earlier guests thrilled to physical feats of water skiers in the lake below, they now prepare to witness the technical power of the Amiga. Most, however, never even realize the multitaskers are in charge. They have come to enjoy a laser light show and musical performance.

From the island in the center of the lake, a pair of two-meg Amiga 500s direct the production. The show begins when audio tape, embedded with

Lights in Action

SMPTE time code (a framenumbering system), begins to roll. A SMPTE-to-MIDI converter reads the code into a MIDI interface, which sends it on to the Amiga. The Amiga passes the signal to a digital-toanalog converter, and on to two specialized pieces of hardware developed by Laser Entertainment Technologies' Randy Johnson: a scan amplifier and a scan head. The scan head houses a group of mirrors and a tiny control motor called a galvanometer. When a laser beam is directed into the scan head by a state-of-the-art 32-watt argon Coherent Innova laser, it bounces from mirror to mirror and then out into space.

Software running on the Amiga triggers the galvanometer to adjust the mirrors' positions and thus change the direction of the beam. Programmed with tables of data representing the x and y positions on a grid, the software puts together sequences of positions (depending on time-code specifications) to form shapes. The Amiga outputs these sequences in rapid succession, triggering the galvanometers to line up each mirror with any x, y positions specified by the computer. Tracing shapes faster than the eye can detect, the beam projects images onto the clouds. The laser can draw letters and fairly complex pictures-even animations.

Software developer Adam Harris said that he and partner Randy chose the Amiga for this project for a number of reasons. They wanted their system to be easy to use, and felt that the Amiga's environment was ideal. Fast processing capabilities, color, and an easily accessible bus were other drawing points. The Mac, says Adam, offers nothing more than the Amiga, and costs twice as much.

Although the Sea World system is set up with SMPTE tape to allow for an automated presentation, the MIDI interface makes it possible for a musician to control the laser simply by playing a synthesizer. Nicholas MacConnell, president of MindLinks in Del Mar, California, which distributes Laser Entertainment's system, is excited about its possibilities. "The Amiga is at the head of a revolution," he said, "a breakthrough in the performing arts." -BGT

Amiga Upon Avon

THE TEMPEST OPENED at Sonoma State University with howling winds, thrashing waves, and an impressive cast. Unlike Shakespeare's original production, Associate Professor of Theater Arts Judy Navas' starred an Amiga 1000, an A500, two video cameras, three eight-foot by ten-foot rear projection monitors, Mandala (Very Vivid), Invision (Elan Design), the LIVE! digitizer, a Casio synthesizer, in addition to live actors.

The production was a group effort. Judy prepared most of the special effects herself on her Amiga. Consultant Rob Terry created the opening storm sequence using Invision, LIVE!, and clips from B-grade seafaring movies.

In the play's eight performances, actors triggered music and images via Mandala to enhance their lines. "This technology has genuine magic," Navas says. "It's a revolution that's going to change the way we look at performance." Mandala is an unsupported, buggy, but extraordinary software and hardware

interface for multimedia, interactive performance art. Mandala allows an onstage performer, while in a video camera's field, to trigger animations, sound effects, and music, "paint" on the screen, or even be imposed themselves into other live, taped, or computer-generated environments.

Unfortunately for other performers, Very Vivid has taken Mandala off the market. "This is a major loss to the Amiga," says Judy. "I've always been frustrated by the clunkiness of the theater in presenting the ethereal. With this technology, for the first time on stage, you can actually see the process, in action, in the moment. For the first time in my 20 years of college productions, my imagination could find concrete images that others could see."

Her next Amiga/Mandala production will be an interactive-surrealist performance combining T.S. Eliot's "The Love Song of J. Alfred Prufrock" with photographs of the French painter, Magritte. $-Sue\ Albert$

NOT MILITARY. NOT MERCENARY. AND YOU'RE DEFINITELY NO TOURIST...

SOVIET COMMANDER: "WHO ARE YOU?"

RAMBO: "I'M YOUR WORST NIGHTMARE."

Remember that line? Now YOU can deliver it to the enemy—in person. Thirty miles over

the Afghanistan border, Soviet forces are torturing your friend and mentor, Colonel Trautman. You're the only man alive with enough guts,

TAITO

brawn, and resourcefulness to singlehandedly rescue the man who taught

you how to fight. Every Soviet commando, tank, and attack chopper in the sector is on your tail. It's the ultimate contest for the ultimate fighter.

Amiga game screens.



It takes more than muscle to de-activate electronic gates, cross treacherous mine fields, and find the keys to Trautman's cell.



Ever fly one of these things? With the enemy breathing down your back, that Hind chopper's the best way out of this bell hole.



It's just you and your bijacked tank against anti-tank missiles and choppers. Sight in and rearrange that balance of power!



If you cannot find this product at your local retailer, Visa/Mastercard holders can order direct anywhere in the United States by calling toll free 1-800-663-8067.

Game Design, © 1988 Ocean Software Ltd. RAMBO is a registered trademark of Carolco. © 1989 CAROLCO.

Ocean is a trademark of Ocean Software Limited. Taito is a registered trademark of Taito America Corporation. © 1989 Taito America Corporation.

All rights reserved. Amiga is a registered trademark of Commodore-Amiga, Inc.

Centaur puts the





Educational Paint Program with built-in Coloring Book

Satisfied customers are writing in about My Paint: "My kids love this program because it's so easy to use. The digitized sounds are great!" Santee, CA

"This is an exceptionally well thought out product. My son loves it. Thank you! Highland Lakes, NJ

"The graphics are wonderful - The children love it and so do I. Jamaica, NY

Now available: Even more fun for educator approved My Paint! New coloring disks with all new characters, objects, animals and sounds.

My Paint Coloring Disks sold separately \$49.95

DATA DISKS \$29.95



Smooth Optical Mouse for all Amigas

- Double the resolution of the standard mouse for better precision
- Supports X-Windows, Amiga UNIX and Workbench 1.4
- Only Optical Mouse available for the Amiga
- No moving parts to wear out
 - Smooth mouse movement

\$149.00

CSI 3200 Silent Drive with...



CSI 3200 SilentDrive

- · Doesn't make the annoying click when disk drive is empty
- Small compact design in sturdy metal case
- Compatible with all Amigas
- Low Power consumption
- On/Off switch for saving memory
- Includes B.A.D. Disk Optimizer Software

SilentDrive with B.A.D. \$195.00

Also available, the CSI2200 Internal drive for the Amiga 2000

Make your disks fly with B.A.D.

- The Ultimate Disk Optimizer
- Decrease Disk Access Time Up to 500%
- Works with Floppies AND HardDrives
- Supports Multiple Partitions
- FAST CLI Directory Access
- Incredible WorkbenchTM Performance
- 100% AmigaDOS Compatible
- Works with the FAST FILING SYSTEM

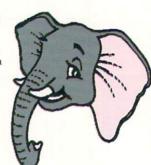
B.A.D. analyzes, restructures, and processes ANY AmigaDOS disk such that permanent speed increases will be realized. This is NOT a RAM cache based system!

B.A.D. Separately

\$49.95

MiniMax

Get more out of your Amiga 500 with more memory. MiniMax internal RAM expansion allows you to expand your Amiga 500 up to a total of 2.3 megabytes internally!



...more memory for your **Amiga**

- Available in 0K, 512K, 1 Megabyte or 1.8 MB
- INTERNAL in your Amiga 500
- Keeps your expansion slot on side
- Expansion RAM disable switch, for older software programs incompatible with extra memory
- RAM-test software included Realtime clock on board with
- battery backup Amiga automatically recognizes
- extra memory
- Low Cost

The complete professional solution from schematic to PCB!

PRO-NET

- Menu Driven
- Complete set of powerful schematic capture commands Variable logic template size that follows MIL-STD-860
- Provides automatic device and section number assignment with zone control.
- Automatic page reference generation and insertion
- through post processing.
 Weight assignments which can be hidden.
 Dot Matrix, Laser Printer, Plotter and Gerber Plotter support.

- PCB library part accuracy to 0.001 inch.
 0.025 PCB grid.
 Supports 1, 2 or 4 layer PCB with silk screen.
 Single line auto route, 12 mil trace, 13 mil spacing.
 Provides wide traces.
- Component placement done by positioning DIP, SIP,
- 2-PADS and library parts.
 Complete set of powerful PCB layout features accessible through IFK's.

fun in functional!

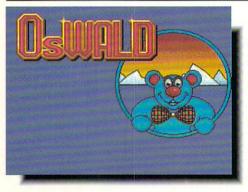




With World Atlas, a fun and educational utility comes to the Amiga. More than an atlas, this program gives you direct access to information and details on more than 170 countries, as well as the 52 United States. For students, educators, travelers, business executives, or just armchair explorers, World Atlas will provide an incredible wealth of knowledge and entertainment.

- Discover each country's history, language, population, customs and more!
- Choose by country and state list or world maps.
- Time sectors and earth facts too!

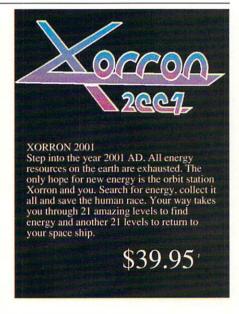
\$59.95



Oswald is a fast paced and entertaining action strategy game. Oswald's a cold and hungry blue bear jumping across the ice floes. You help him avoid the hazards of the freezing north sea on route to his goal

- A wide range of digitized sounds
- Interesting adversaries
- Humorous animation

\$39.95



QUASARSOUND

The ultimate stereo sampling/sound editing system! Save real-world sounds in IFF format for use in any music program that supports IFF or 8SVX sounds.

- High and Low Pass filter operations
- Can play and record up to 4 tracks in memory
- Easy to use user interface with visual editing
 Powerful editing features, including cut and paste
- POWERFUL RECORD TO DISK FUNCTION: With DISC-RECORDING, you can record sampled sounds longer than the capacity of your internal RAM on up to 4 disks at the same time to create auto-boot PlayDisks.

\$59.95





FOR DPAINT III

VIDEO CASSETTE

With this one hour video tape of tutorials, tips and techniques, the new user, as well as the seasoned professional, is easily shown how to best utilize Deluxe Paint® III's tools to achieve spectacular effects with professional results. Amiga artist Jeff Bruette will guide you step by step through DPaint's features including:

- Cel Animation
- New Tools
- the "Move" Menu
- Shortcuts
- Combining Effects
- 3-D Perspective
 and More

Also features Deluxe Paint creator Dan Silva.



\$29.95





LEONARDO

Leonardo is a thief who steals nearly everything he can get his hands on. Follow Leonardo's way through fifty different banks, museums and warehouses. Help Leonardo avoid the numerous alarm systems, guards and ghosts on his criminal trips.

\$44.95



Centaur Software, Inc. P.O. Box 4400 Redondo Beach, CA 90278 (213) 542-2226

REVIEWS

DIGI-PAINT 3

Number three—the second is first rate.

By Roger Goode

IT'S TIME TO tune up your imagination and set your creativity free, kids, because Digi-Paint 3 is here, and it brings such power and ease to Hold-And-Modify (HAM) painting that it will quickly become a trusted friend.

NewTek's original Digi-Paint was the first program to break the color barrier, allowing simultaneous use of all of the 4096 colors available to the Amiga. It also introduced us to some of the now-familiar headaches associated with HAM painting: color fringing, huge demands on memory, and long waits for some operations. Since that time, a number of competing products have been introduced, each making more impressive claims than the last. Now, those competitors may want to head back to the drawing board, because Digi-Paint 3 is hard to beat.

No, there never was a Digi-Paint 2: the 3 in Digi-Paint 3 refers to the number of man-years that went into developing the program. From the look of things, it was time well spent. With the addition of new tools, modifications to the old tools, and a new interface—designed by Amiga artist Jim Sachs—that makes the program a joy to use, Digi-Paint 3 is an entirely different package. (NewTek offers

a \$29.95 upgrade deal to Digi-Paint users, and a \$49.95 trade to owners of other paint programs.)

IT'S IN THERE

Written entirely in assembly code, Digi-Paint 3 is compact, and its support of 60820 processors makes it the fastest HAM program yet. New features include 3-D texture mapping, improved colorizing, super bitmaps, overscan and ARexx support, anti-aliased fonts, and compatibility with Haitex's stereo-vision gogs, X-Specs 3D.

In the package are two non-copy-protected disks: the program disk plus another containing some tutorial art and an image-processing utility called Transfer 24 that Digi-View (NewTek) users will recognize. Transfer 24 is great for making overall changes (such as contrast, brightness, and saturation adjustment), and for making color separations, changing file formats, and resizing pictures.

The expanded 127-page manual is filled with useful tutorials, tips and techniques, and a complete set of references and appendicies. It is broken down to nine fully illustrated chapters that detail the use of all tools and menus, and provides useful discussions on everything from how HAM works to programming compatibility with ARexx. While the program requires just 512K to run, at least one megabyte of RAM is preferable.

IN ONE BOX AND OUT THE OTHER

The default toolbox occupies the lower quarter of the working screen. Along with its strip of 16 basic (register) colors, a current color bar, and an area for defining color ranges along the top, this toolbox provides basic tools for most of the usual paint operations: freehand draw, straight lines, polygons, rectangles, circles, and ellipses. There's a fill button

that works with each of these, and a full range of brush shapes with a flexible, easy-to-use sizing option. Beneath these tools are buttons for the custom-brush grabbing tool, a magnifying option for detailed work, and the indispensable undo and repeat options.

The nicest features on the toolbox are buttons that call up the other three toolboxes: the Palette, Text Rendering, and Controls boxes. Each of these toolboxes occupies the same portion of the screen that the default box does, and each has gadgets that allow you to toggle between them quickly and easily. This is a particularly nice design feature; it keeps your work space uncluttered and provides a logical and intuitive method for dealing with the complexities of HAM painting. All of the boxes contain undo and repeat buttons and the color strip, so you need not return to the default toolbox every time you use them.

Digi-Paint 3's Palette box is the nicest I have seen on a HAM program. While retaining the 16-color register strip at the top, it expands to display a full-value range of each color directly below the register. A standard RGB slider control to the immediate right, with a numeric value readout of the currently selected color, makes precise color adjustment a breeze. To the right of that are the 4096 color-selection panels from the original Digi-Paint that change dynamically as you move around in them, allowing you to quickly choose a color for fine tuning in the RGB sliders. Finally, there is a Pick button that lets you choose a color directly from the picture screen so you do not have to waste time trying to duplicate colors you have used.

The Text Rendering toolbox lets you add titles and captions to your graphics.

Just type letters into the bar on the right side of the toolbox, choose a font and point size from the menu, pick a color, and click on any of three buttons for Bold, Italic or Underlined styles. When you are all set, click the Text to Brush icon and watch the string (or as much as will fit) render at the top of the screen and then attach itself to your brush. Then, simply place the text brush where you like it and click. Two degrees of smoothing help give your text a professional look, and best of all, once the text is attached to your brush it can be enhanced and modified with any paint mode and with the options in the controls toolbox.

TAKE CONTROL

Controls is the largest of the four toolboxes. Most of its display is devoted to two major functions, Transparency and Texture Mapping, both of which are wonderfully conceived and surprisingly easy to use. The Transparency control is centered around a large boxed display of a ball, representing the shape that will be drawn to the screen. Above this box are four icons (labeled Point, Vertical. Horizontal, and No Hotspot) representing the types of hotspots you can apply to a paint operation. Clicking on one of these icons causes a hotspot locator to appear on top of the red ball. (If you choose No Hotspot, the ball graphic is blanked out to represent an overall tint.) You can move the locator around in the box to determine where the center of transparency or opacity will spread from. To determine the degree of transparency at the designated hotspot and at the edges of your drawn shape, you adjust the two sets of sliders on either side of



Get on the ball in the Controls toolbox to determine the transparency of objects in your picture.

the ball. The sliders offer calibrated degrees of transparency for fine tuning, and both are flanked by three icons that deliver 100%, 50%, and 0% transparency. These icons, well-designed graphics that show the ball with various degrees of transparency at either the center or the edges, give the interface an intuitive feel. Once you have set your transparency parameters, just paint to the screen. If you don't like the effect, click undo, make some adjustments, and click the repeat button to try again. This tremendous flexibility is found throughout the program.

A BRUSH WITH EFFECTS

The Warping and Texture Mapping control is a two-in-one tool. To use it, you must first grab a custom brush from the screen, copy it to the brush buffer, and select TxMap from the Modes menu. This sequence enables Warping. The Warping control is set up similar to the Transparency control, with a boxed graphic of a grid-mapped ball, a slider on the left to set the degree of warp, and three icons on top for choosing vertical, horizontal, or point warping. Selecting an icon places a bar or point, which you can move to determine where the warping will be the most pronounced, on the grid ball display. The slider lets you set the amount of warping to the brush incrementally from none to extreme, and each of the three buttons alongside it graphically depict how much warping they will induce. This well-designed interface allows for the most intuitive use of an option that could otherwise be confusing.

Once you have set the Warping contols, you can move on to the fun part. Texture Mapping works with any custom brush, including text brushes, and with all shape tools, filled and unfilled. Choose a shape tool-freehand, circle, rectangle, or any other-and draw on the screen at any size. In a few moments your texture-mapped figure is rendered to the screen, complete with as much or as little warping effect as you chose. For powerful perspective effects, draw a simple polygon, wide at one end and narrow at the other, and your brush will seem to fall back into the third dimension. To ensure that the final effect is polished and convincing, there are two buttons to control smoothing. I tested these controls on a couple of drastically enlarged brushes, and was amazed at the amount of detail retained and the minimum of jagged transitions. ►

Along with these two major effects-producing functions, the Controls toolbox includes buttons for setting the type of dithering used. Random dithering, the default, produces the most natural look; Pattern gives a more ordered appearance, and turning the dithering off produces a banded look. Using the Random setting adds more colors to the screen by mixing two colors to simulate a third. According to NewTek, Digi-Paint 3 uses 30 bits per pixel accuracy (over 1 billion colors) to calculate dither patterns.

The Controls box also has a Tile function that works with TxMap mode to produce a repetitive pattern using the current custom brush. The number of tiles can be set from one to nine both vertically and horizontally.

IN THE MODE

The Modes menu, a significant source of the program's vast power and flexibility, has been cleaned up and steamlined since Digi-Paint's first incarnation. Gone are some of the obscure entries like ADD and SUBTRACT, as well as the familiar TINT, BLEND, and SHADING. They have been replaced by or revamped into the more intuitive NORMAL, RANGE, LIGHTEN, DARKEN, COLORIZE, RUBTHRU, BLUR, and TxMAP, all of which are pretty self-explanatory and perform as expected. I particularly like COLORIZE, which takes the place of ADD and TINT. Used in conjunction with the Transparency function, COLORIZE allows an unparalleled degree of control for tinting and overlaying color washes. The range of tint colors has become more natural, as well. AND, OR, and XOR are still on the Mode menu for producing a number of interesting, if sometimes unpredictable, false color effects.

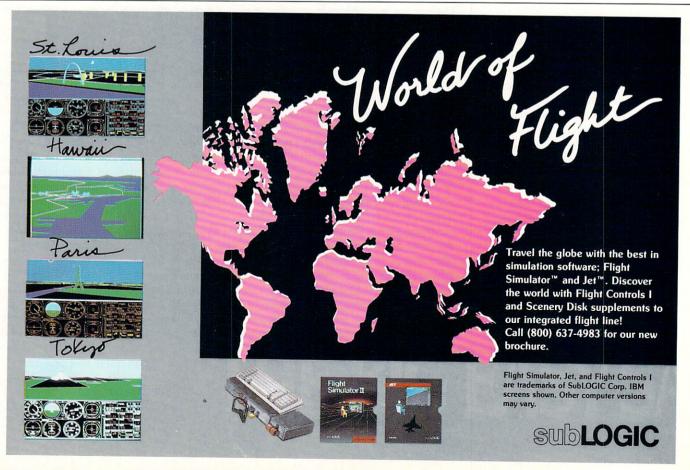
All of the Modes menu functions are capable of interacting with the full array of options in the different toolboxes. In fact, most everything in this program interacts with everything else for seemingly endless combinations (and combinations of combinations).

FULL SWING

I spent many, many hours testing all the options listed in the manual as well as many that are undocumented. Never did I find the program wanting. I designed

a few exacting projects to put the program through its paces, and for the most part, the results surpassed my expectations. Digi-Paint 3 is very fast, and very easy to learn and understand. The manual is a great help, but the tools and controls are so well thought out and intuitive that after a while, I hardly needed it. The sheer number of settings available is a potential source of confusion; a few times I came up with surprising effects when I had forgotton to turn off an option or two. That is, until I discovered that pressing the Tab key restores Digi-Paint 3's default settings. This clearing mechanism is a valuable inclusion, because it is easy to get tangled up in a creative frenzy. There is no default palette setting, however, which would be equally helpful, and a flood-fill tool is conspicuously absent.

The one thing I look for in any paint program is down-to-earth practicality. I want something that lets me realize the ideas and images that bubble up in my head, and develop without having to refer to the manual continually, and without having to use lots of complicated procedures. Digi-Paint 3 is that kind of

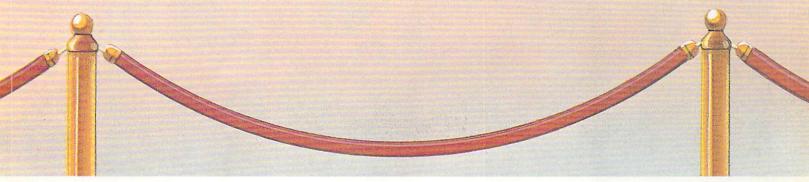


A Masterpiece.









Don't limit your potential! Experience excellence!, a word processor designed for your Amiga, with 250 available fonts, a Spell-As-You-Type 90,000+ word Dictionary, Grammatical/Style Checker, Thesaurus, Index and Table of Contents generator, Headers, Footers and Footnotes! Sail through PostScript output, True WYSIWYG, automatic Hyphenation, Math, beautiful resizable Color Graphics, flexible Mail Merge, Columns and an easy-to-use Macro-Language making complete actions a breeze! The fastest word processor for your Amiga is the only one you'll ever need! Truly a ''Masterpiece' of excellence!

Committed to excellence since 1978



12798 Forest Hill Boulevard, Suite 202 West Palm Beach, Florida 33414 407-790-0770 Fax 407-790-1341

See your local dealer for an excellence! brochure. Dealers and Distributors Call 1-800-327-8724

We use KAO Disks!

Amiga is a registered trademark of Commodore Business Machines • PostScript is a registered trademark of Adobe Systems, Inc. • excellence! is a registered trademark of Micro-Systems Software, Inc.

program. While I cannot see using all its features for every job I tackle, I do see a practical application for almost about every tool offered. Just the sort of quality I look for in a trusted friend.

Digi-Paint 3 NewTek 115 W. Crane St. Topeka, KS 66603 913/354-1146 800/843-8934 \$99.95 No special requirements.

MUSIC-X

It's all here, at last.

By Steve Ouinzi

AFTER A PAINFULLY long period of pre-release advertisement, Music-X has finally hit the stands. If you've been paying attention, you might already know that Music-X has two main applications. It is an open-ended MIDI sequencer

with features like synchronization to SMPTE and MIDI Time Code, graphic and text editing of MIDI events, and IFF sample support. Also, it is a self-configuring patch librarian that can store sounds from MIDI synthesizers.

The package comes with three disks: the program disk, one with utilities, and another filled with examples. Music-X is not copy protected, and although it requires just 512K to run, one megabyte or more is strongly recommended. If you intend to use Music-X with MIDI devices, then you will also need a MIDI interface and some kind of controller keyboard and sound source.

PAGING DR. MUSIC

Music-X is divided into eight "pages," or screens. The first of these, the Sequencer page, appears on boot up. At the top left of this screen is the Transport window, which contains Play, Record, Pause, Fast Forward, and Rewind buttons to emulate the functions of a tape recorder. It also has auto-locate buttons that cue instantly to the beginning, end, or to any one of four predetermined points of a sequence.

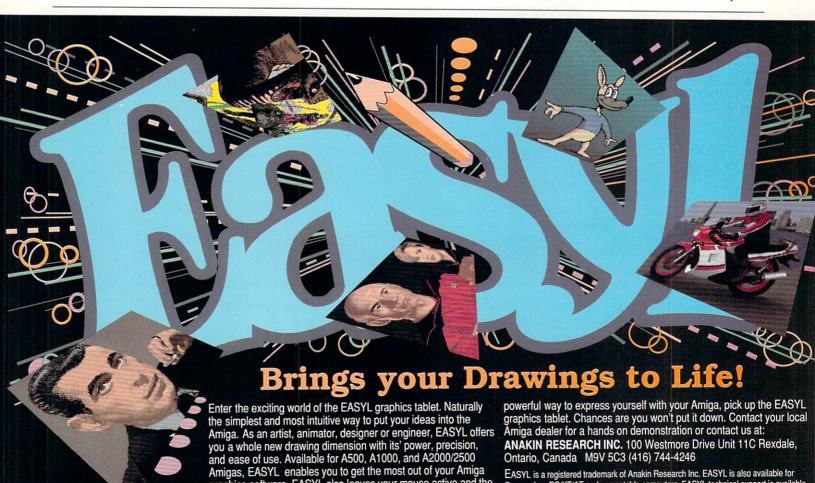
Below the Transport window is the Clock window with its two displays: a musical counter, which expresses elapsed time in terms of measures, beats, and clock pulses (192 per quarter note), and a real-time counter, which reads out hours, minutes, seconds, and frames. Below this, the Tempo Display window indicates the current tempo and the number of MIDI events that have been recorded. Just to the right is the Time Signature window, which shows you the current meter.

At the bottom of the screen is the Sequence List, a database display that accommodates up to 250 entries. For each sequence listed, there are nine fields of data: a reference number, the amount of RAM it requires, its length in measures, the MIDI channels used, CST (an indication of special Music-X events within the sequence), a Time field that shows whether the sequence was recorded in relative (measures, beats, and clocks) or absolute time (hours, minutes, seconds, and frames), the sequence name, its out-

R E Continued on p. 100

Commodore PC/XT/AT and compatable computers. EASYL technical support is available

on BIX. (This ad was created on the EASYL, using Deluxe Paint and Professional Draw)



Circle 82 on Reader Service card.

graphics software. EASYL also leaves your mouse active and the

mouse/joystick, serial and parallel ports free for other uses. For a

Got The Picture...Get The Works!

PLATINUM EDITION[™]

Picture this: all the productivity applications you need in one easy to use "Starter Kit". Give your Amiga power times five. Give it **The Works! Platinum Edition.**

WORD PROCESSOR • The Works! Platinum Edition word processor is powerpacked with features that help the serious writer excel, in an easy-to-use environment that makes beginners instantly productive. The 104,000+ word dictionary with Scientific and Technical supplements keeps your spelling picture-perfect. The 470,000+ word thesaurus with definitions keeps your word-images precise. Mail Merge eliminates repetitive typing. All this, the ability to print IFF graphics, and more! It may be all the word processor you'll ever need.

✓ SPREADSHEET • The Works! Platinum Edition spreadsheet is lightning fast — in fact, the fastest Amiga spreadsheet. And it supports the 68881 co-processor for even more blinding speed. The more than 40 built-in functions do sophisti-

cated calculations. Picture your numbers in any of eight graph types and displayed in eight vibrant colors. Its complete Macro language automates complex operations.

TELECOMMUNICATIONS • The Works! Platinum Edition is a sophisticated telecommunications program. It is a special part of the outstanding whole. Its multiple terminal emulations and *ten* transfer protocols are the hallmark of flexibility. The script language offers unattended operation and the user defined Macro-Keys reduce complex commands to a single keystroke. Ask about Sadie.

✓ DATABASE • The Works! Platinum Edition is a flat file manager with power. The extensive mathematical functions make reports much more than a simple list of data.

✓ SIDEWAYS • The fifth power module in The Works! Platinum Edition, stands your printouts on end. Print ASCII text files and IFF Graphics rotated 90-degrees. The Works! Platinum Edition is true integration from the Micro-Systems Software Development Team; pioneers in Amiga productivity products. Experience full Clipboard compatibility, a common interface, and one user friendly manual. You owe yourself the Platinum experience! Check out The Works! Platinum Edition at a dealer near you.

The Works

Committed to excellence since 1978



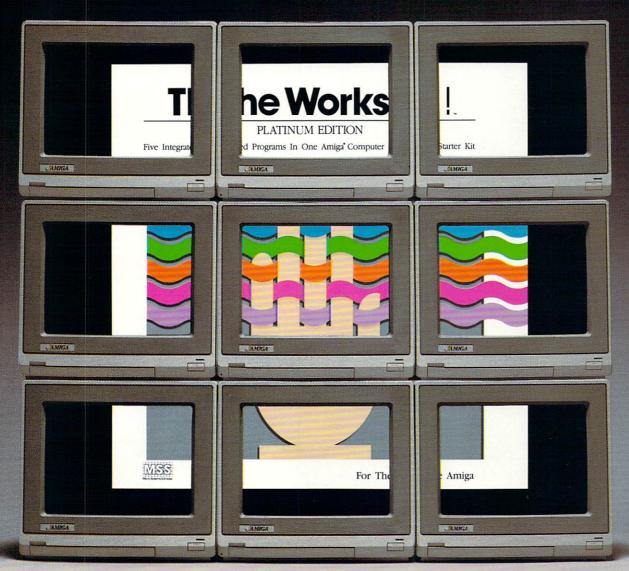
12798 Forest Hill Blvd., Suite 202 West Palm Beach, Florida 33414 407-790-0770 Fax 407-790-1341

Dealers and Distributors Call 1-800-327-8724

See your local dealer for a demonstration.

We use KAO Disks.

The Works! Platinum Edition is a trademark of Micro-Systems Software, Inc. All brand and product names are trademarks of registered trademarks of their respective companies.



IIOOK,

your AMIGA yourd choose would choose MTRONICS, IMTRONICS, simply the best ...

HARD DRIVE 4000

- O 32 MB Hard Drive for A 500;
- On board up to 4 MB Fast RAM;
- The most compact memory / HD system on the market;
- 1 MB of memory only 198,- US\$
- Only 849.- US\$ (32MB/0KB)



HARD CARD 2000

- O 32 MB Hard card for A 2000;
- O Autoboot with KS 1.3 from FFS;
- O Comes ready to use;
- O Step by step user manual;
- Only 649,- US\$



HARD DRIVE 500

- O 32 MB FFS autoboot HD for A 500
- O Non DMA design, no trouble!
- O Expansion Bus passed trough;
- O Amiga shaped case:
- O 420 KB/350 KB r/w (devspeed)
- Only 698,- US\$



PRO RAM 1.8

- O Memory Expansion for A500;
- O User upgradable up to 1.8 MB;
- O Fully A50I compatible;
- O Includes battery backed clock;
- O External on/off switch;
- O Starts as low as 149,- US\$ (0KB)



Amiga is a trademark of Commodore-Amiga Inc.

12301 South West 132 Court Miami, Florida 33186 Phone: (305) 255 9302, 255 6903

Fax: (305) 255 6903

IMTRONICS-

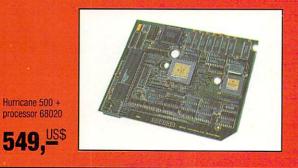
量BRRICANE"

the back-to-back champion now has two new team members!

Hurricane 500 / 68020

The Hurricane-family for the Amiga has a new member: The Hurricane 500. Now, with this new accelerator board it's possible to get the real 32bit-power in every Amiga 500. The Hurricane 500 is a brand new development that comes along with all the superior features that made the A1000 and A2000 Hurricane Board the winners in this competitive world. Just take a short look on the unique design of the Hurricane 500. These are the facts, but the experience is to be made by you. So if you want to add the real performance to your Amiga 500, there's only one choice: Hurricane 500.

- O 68020 CPU with 14,28 MHz / 68881 FPU with 16 MHz
- O 1 MB or 4 MB ultrafast 32Bit-RAM with 70 nanoseconds
- O 68000 on board, switchable between 68000 and 68020
- O 5 times the operation performance of a standard Amiga
- Over 10 times speed increase when FPU is used
- O Low power C-MOS design
- O Fits easy into your Amiga 500



Hurricane 2800 / 68030

Hurricane 2800 – this name marks a milestone in hardware development. The H2800 accelerator board for the Amiga 2000 makes your system a 68030 workstation, giving you the power you never dared to dream of. You want to do ray tracing or animation, desk top publishing or professional video applications, CAD or complex mathematical calculations, but you are scared your Amiga cannot offer you the performance you need? Now, all you need is the Hurricane 2800 Board, and you won't believe that it is still your Amiga. Get the superior power neither a Vax minicomputer nor a MacII can offer you while you can still work with everything you got used to. Among it's unique features, the H2800 offers you:

- O 68030 CPU and 68882 FPU with 28,56 MHz
- O 2 to 16 MB 0 Waitstate 32Bit-RAM
- Over 12 times the performance of a standard Amiga
- O Switchable between 68030 and 68000



Now available in addition to the known Hurricane Boards either as low-price complete solution or as single components. Run on in to your favorite dealer and get a Hurricane 500, or call us for more information. But whatever you do, don't be left at the starting line while everyone else passes you by.

Amiga is a trademark of Commodore-Amiga Inc., 68020, 68030, 68881, 68882 are trademarks of Motorola. Vax is a trademark of Digital Equipment Inc., Mac II is a trademark of Apple.

12301 South West 132 Court Miami, Florida 33186

Phone: (305) 255 9302, 255 6903 Fax: (305) 255 6903





Top of the Midway

The carnival's in town,

and we'll show you which games

to spend your allowance on.

AT YOUR FILL of cotton candy, fried dough, and candied apples, then follow along on a tour of the Amiga Midway's 20 best games. You'll sample shooting galleries, houses of horror, tests of strength, space-age rides, mazes within labyrinths, even an intellectual challenge or two. As the barkers say, "You don't play, you can't win. Get a prize every time!" Unlike the old duck shoot, ring toss, darts, knock-over-the-milk-bottles, and dime-pitch games, which rewarded you with stuffed animals in day-glow colors, Amiga games offer you extra lives, magic powers, and control of the universe.

Our AmigaWorld Players won (and lost) plenty during their many testing sessions. Control of the galaxy changed hands more times than the manager's office of the Yankees, and enough aliens to populate an entire solar system were destroyed, all in the name of research. Testers rated each for quality of presentation (Does the game have good graphics and sound?), durability (Does it hold its appeal for a long time?), and, most importantly, entertainment value (Is the game fun?). Only games released since last year's top 40 ranking (held in July of '88 and appearing on p. 29 in the November '88 issue) were eligible. Along with the overall rankings, we picked a winner in each class (see the sidebar "Before You Play" for an explanation of the categories) and the "Best of Show" game of the year.

While we guide you through only the top 20 games, the Amiga midway offers many more attractions. For a complete map, check out our buyer's guide to games and manufacturers (p. 39).▶

By Linda Barrett and the *AmigaWorld* Players: Bill Catchings, B.G. Hunter, Sheldon Leemon, Dave McClellan, Peter Olafson, Patrick Quaid, Mark Van Name, Lou Wallace, and Dodson Yaple.



20 Where in the World Is Carmen Sandiego?

Graphics Adventure Broderbund Software \$44.95

Log onto the Acme Detective Agency's Crime Computer to find out which of the world's priceless treasures Carmen's band of theives have made off with most recently. Beginning at the scene of the crime-one of 30 cities around the globe-you gather clues from the locals. Unraveling the clues with the aid of The World Almanac (supplied with the program) leads you on an educational chase. Arrest the thug within the alloted time, and you win a promotion (there are five detective levels) plus a tougher assignment. Stunning graphics depicting famous landmarks greet you as you land in each city.



Action/Strategy Medalist International \$44.95

Prepare for war. In Carrier Command's 3-D world, you command an aircraft carrier, its four fighter planes (Mantas), and its four amphibious drones (Walruses) in an attempt to wrest control of an archipelago's 60 islands from an even faster computer-controlled carrier with tendencies just as aggressive. You'll need to establish a resource island on which to

construct mines and oil rigs, a factory island to transform the raw materials into weapons and fuel, stockpile islands to store the products, and, of course, a ring of defense islands to protect the more vulnerable ones. When you run out of neutral and friendly islands to colonize, launch a few Walruses and Mantas to attack a hostile island.

"You can ambush the enemy carrier if you wait just out of range of an island you think the computer will attack. Launch your fully-armed Mantas when you receive word the island is under attack and head for the carrier at full speed. With luck and good timing, you will catch the carrier without its own Mantas nearby. Act fast though—it moves as fast as the planes do."—Peter Olafson



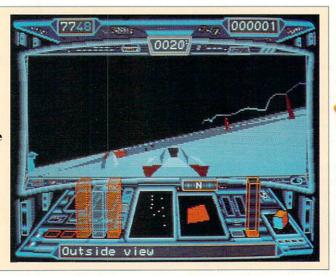
Arcade Psygnosis \$29.95

With over 60 varieties of attackers, six levels of play, and two degrees of difficulty, Menace makes you appreciate a rapid-fire joystick. If you destroy an entire wave of nasties, a bonus cube appears. You can take it for its point value, or transform it into an icon by shooting it. Grab the icon and you gain a temporary advantage (lasers, cannons, more speed, a force field, or repaired sheilds). You'll need the extra help when you go up against the guardian at the end of each horizontally-scrolling level. The 64color graphics combined with digital speech, sound effects, and background music set the scene.



Be a space-age

fly-boy.





Best Flight Simulator Spectrum Holobyte \$49.95

Without joining the military, Falcon is about as close as you'll get to the cockpit of an F-16 Fighting Falcon jet fighter. The game's graphics are excellent and the physics behind the flying is realistic. Be prepared for some heavy manual reading, however, before you take off on air-to-air and air-to-ground missions. Falcon is very detailed. The game eases you into international warfare by giving you a choice of five ranks from First Lieutenant (no crashes or enemy fire) to Colonel (you're in the Air Force now) and 12 missions. Choose your weapons, then take to the air for the program's forte-dogfights. You can even fly against another player via modem on a one-meg system.



Action/Strategy Medalist International \$44.95

A cross between a flight simulator and an arcade-style shootout, Starglider II never lets up. Through space dogfights and careful scavenging you must accumulate enough skill and equipment to rout the dreaded Egrons from the Solice System. You can destroy your foes with gas plasma lasers, projected time-warp cuboids, fire-and-flee missiles, bouncing bombs, and a neutron bomb. Need a short cut? Just slip through the tunnel networks. While you're there, stop in at a service depot; the technicians can be a big help. The surprisingly effective plot, 3-D graphics, fast screen-refresh rate, and great sound effects will keep you riveted to the screen.

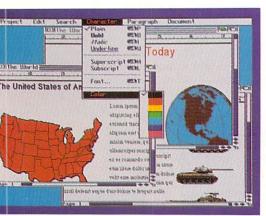
Zak McKracken and The Alien Mindbenders

Graphic Adventure Lucasfilm \$44.95

Poor Zak the tabloid reporter, he has to cover a two-headed squirrel instead of a ►

ProWrite 2.5, The Best Amiga Word Processor. Guaranteed.

Feature	ProWrite	excellence	Pen Pal	Kind Words	Scribble
True Multiple Fonts	V.	1	V ,		
Color Pictures	√	√	1	√	
Wrap Text Around Pictures	V		✓		
WYSIWYG Display	V	1	sometimes	1	1
Spelling Checker	√	V.	V ,	1	V
Mail Merge	V	V	V	V	V
Typing Speed	fast	slow	medium	slow	medium
Spell Check as You Type	V	1			
Simultaneous Text and Graphics Printing	1		✓		
Automatically Adjust to Printer's Capabilities	√	Mark Argent			
PostScript Support	optional	✓			
Paragraph Sorting	√				
User Definable Defaults	1				
Can Multi-Task with 1 Meg of Memory	V			√	V
Suggested Retail Price	124.95	299.95	149.95	99.95	149.95
Guaranteed Bug Free*	1				



ProWrite is the most reliable full-featured Amiga word processor—and it's the only one that's guaranteed. Look at the chart again. It highlights just a few of the features you get with ProWrite 2.5.

Unlike other word processors, ProWrite *can* use multiple fonts, *can* place graphics next to multiple lines of text, *can* keep up with your typing, *can* check spelling as you type, *can* multi-task with just one meg of memory, and *does* have that solid Amiga feel. And we support our product better than anyone.

See how easy and powerful Amiga word processing can be. Trade in your current word processor and for only \$75 we'll send you ProWrite 2.5. Don't miss this exciting opportunity.

*Call or write to us for details on ProWrite's bug free guarantee.



First In Personal Productivity And Creativity.

206 Wild Basin Road, Suite 109 / Austin, Texas 78746 (512) 328-6650 / FAX (512) 328-1925

ProWrite is a trademark of New Horizons Software, Inc.

Yes, send	l me	ProV	Vrite	2.5
at a \$	50 s	aving	s!	

Here's my word processor program disk and a check or money order for \$75 (Texas residents please add \$5.81 sales tax).

NAME

ADDRESS

CITY, STATE, ZIP

Offer valid in U.S.A. and Canada only.

real story. When the alien mindbenders infiltrate the ranks of the telephone company and start infecting the population with stupidity, however, Zak gets his chance. You control Zak and three women on their around-the-world (and Mars) quest to stop the aliens. Difficult-but-solvable puzzles and an understated sense of humor run through the game's huge and interactive world. Unlike Zak, you don't need to type anything. To control the game, click the action icons and the objects you wish to act on.

"Liberal use of the What Is command upon entering a new scene will get you a long way. If you're getting no place, well, there's no place like home." — Peter Olafson



Arcade Psygnosis \$49.95

Simultaneous two-player action, four almost-endless levels, and great graphics make this space shoot-'em-up a standout. Check your ethics at the door, though. In Bloody Money, you can turn around, shoot the aliens in the back, and collect money for making a kill. You can buy more powerful weapons from the equipment shops or save your booty and buy a new ship or rocket pack when you complete the level.

Battle Chess

Strategy Interplay (distributed by Mediagenic) \$49.95

While still a game for intellectuals, chess goes into the trenches with Battle Chess, in which 3-D animated pieces duke it out for control of contested squares. Each piece moves and fights with a distinctive flair. Queens saunter and throw lightning bolts, knights march and clash with swords. For more traditional players the game offers a 2-D mode, an opening library with 30,000 moves, an option to retrack moves, and playing hints. You

can play the computer or a friend on any of ten levels, and even over a modem.

"Try starting off with P-K4. After that, read a chess book."—Dodson Yaple



Action/Strategy Cinemaware \$49.95

As a rocket-powered, leather-clad hero, you fly around the world fighting relentless hordes of Nazis and gathering rocket parts. The Nazis are mining lunarium (which fuels their spaceships and bombs, plus your rocketpack) from the moon; you must steal enough rocket parts to build a spaceship that you can fly to the moon for the Big Showdown. Besides cunning, your only assests are your rocketpack, radium pistol, wrist monitor, and secret decoder wheel. While the quest for rocket parts requires strategic planning, the game is peppered with arcade sequences to keep your joystick jumping. "When you go up against planes, try to guess where they will end up. Lay down fire along that line and get out of the way before the planes even fire. Try to get one or two each pass." - Patrick Quaid

"Use your agents to search for rocket parts and Nazi bases for a turn or two, then set them to organizing resistance. The South American base eventually becomes too tough to handle, but you'll always be able to load up on lunarium at the base in Africa."

—Dodson Yaple



Strategy Strategic Studies Group (distributed by Electronic Arts) \$39.95

Explore, conquer, colonize, build. Explore, conquer, colonize, build, and soon the galaxy will be yours in Reach for the Stars. Complicating matters are three computer- or human-controlled opponents and various catastrophies (novas, natural disasters, viruses, and solar debris). Not only must you plan your exploration and attack strategies, you must manage the resource points your planets produce; should you spend them on building ships and defenses now or on increasing navigational and industrial technology to build more powerful, further-ranging ships later?

"Don't try to be strong everywhere. Keep small forces around, plus a couple large counterstrike groups. Be offensive, and try to get your opponents on their heels."

-Patrick Quaid



Arcade Spectrum Holobyte \$34.95

Want to stretch a five-minute break to last an entire evening? Play Tetris. As various configurations of blocks fall from the top of a pit, you must rotate and position them to interlock with a growing stack below. When you complete a solid row, it collapses on itself to give you ▶



Don't just
take a piece—
destroy it.

Three good reasons why you need WordPerfect.

1. Full Features.

Our long list of features is the industry standard and makes light work of some heavy word processing chores. Chores like footnoting, endnoting, indexing, outlining, and generating tables of contents.

Work moves along quickly while you create custom macros, merge files, and handle blocks of text.

Accurate editing is a snap with the famous WordPerfect Speller and Thesaurus.

And with WordPerfect Columns, Indents, and Fonts, page formatting is clean and simple.

Plus, WordPerfect takes full advantage of the unique Amiga environment, allowing up to 32 open windows, with pull-down menus, mouse command capabilities, and multitasking.

2. Print Quality.

WordPerfect has designed over 250 printer drivers for all the popular (and some not so popular) printers. That means no more settling for generic substitute drivers.

Now your documents can look as good on paper as they do in your imagination.

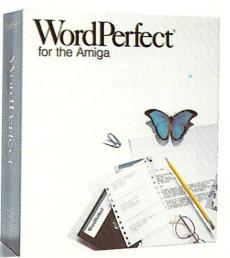
3. Customer Support.

Perhaps our reputation for quality software is surpassed only by our reputation for expert, friendly, toll-free support. In fact, we have over 400 WordPerfect employees answering the phones, helping our users get the most out of their WordPerfect software.

Your good writing needs a good word processor. And for features, print quality, and support, there

is none better than WordPerfect.

So whether you're writing your novel, a proposal to the board, or a letter to mom, good reason says you need WordPerfect for the Amiga.



WordPerfect

1555 N. Technology Way · Orem UT 84057 Telephone (801) 225-5000 Telex 820618 FAX (801) 222-4477

Before You Play

The type of game that leaves one player grinning with glee may leave another foaming in frustration. To make it easier for you to find the games you like and avoid those you know you'll never win (Ever see anyone land a dime completely in one of those little red circles?), we've classified the games in the AmigaWorld Midway into the following categories:

Arcade

Limber up your trigger finger. In these games you use a joystick or mouse to shoot, catch, avoid, or deflect objects. Although many arcade games require strategic planning, their emphasis is on dexterity and speed.

Action/Strategy

Trying to appeal to action lovers as well as thinkers, this category contains strategy games that have arcade or arcade-like elements. In the best examples, the arcade sequences are seamlessly integrated into the play of the game. In poorly-designed games, the arcade aspects seem tacked on as an afterthought.

Sports

These games simulate the play of a particular sport such as hockey, basketball, or golf. Although some sports games stress arcade skills while others stress strategy, they all let you act out your athletic fantasies.

Text Adventures

These games put you in imaginary worlds where you must use your wits to explore and survive. The worlds are created by descriptions supplied by the game. To specify your actions, you type commands; no pointing and clicking allowed, but practice your map drawing.

Graphics Adventures

Also called illustrated adventures, these games use pictures to supplement or replace text descriptions of an imaginary world. In some graphics adventures the images serve only as illustration, while in others they serve as the interactive interface. You point and click on action gadgets, then on the image you wish to investigate or move towards.

Flight Simulators

Zoom into the air realistically with these games. You are at a flying machine's controls as ever-refreshed 3-D graphics simulate its movement through the skies. The best flight simulators sustain the illusion of flight by updating the display screen many times per second through complex computations reflecting changes you've made in speed, altitude, and direction.

Role-Playing Adventures

Assemble a party of adventurers, outfit them with supplies bought from the local store, and send them off on a quest to (usually) wipe out some monsterously evil being. As the category name implies, the challenge is to develop characters with the necessary attributes to successfully face the final challenge.

Strategy Games

With strategy games, joystick prowess takes a back seat to cool, calculating thought. The category encompasses games of logic, as well as games based on real-life scenarios.

more stacking room and adds points to your score. When the blocks no longer have room to fall, the game ends. Play on one of ten standard levels, ten advanced (double-time) levels, or in tournament mode against five opponents.



Best Graphic Adventure Infocom \$59.95

A prequel to the Zork Trilogy, Zork Zero sends you back to (or under) the old sod in the final days of the empire. The evil wizard Megaboz destroyed the ruling Flathead family with a curse that now threatens the entire kingdom—only you can save it. While the story is in the Infocom tradition, it is supplemented by an on-screen map, on-line hints, a mouse interface, and some graphic diversions. For a break from adventuring, try your

hand at playing Snarfem, the Tower of Bozbar, Peggleboz, or the legendary game of Double Fanucci.



Action/Strategy Cinemaware \$49.95

Lavishly set in 12th-century Japan, Lords of the Rising Sun values judgement and leadership over battle and joystick skills. As one of two brothers, you must avenge the death of your father by capturing all the country's castles and becoming Shogun. The other clans are not about to let you rise to the top unchallenged, so be prepared for battles, sieges, and a ninja raid. Even if you can keep the ware under control, the arcade sequences will keep you on your toes. "Don't bother trying to play as Yorimoto until you can deal with the uniformly fatal shirken sequence." —Dodson Yaple



Strategy Interstel (distributed by Electronic Arts) \$49.95

Built around the premise "This planet's not big enough for both of us," Empire starts you off with possession of one city and an urge to take over the rest of the planet. Your cities will produce armies, fighter jets, submarines, aircraft carriers, and battleships that you can use to capture other cities and, eventually, continents. Of course, two rival conquerers are doing the same and are out to get your cities. Careful management of resources and positioning are the keys to success.

"Start building ships early. You're probably on an island, and you'll need ships for invasions." —Peter Olafson

"Explore fast. Build transports early. Always choose unconquered territory over enemy-held. Wait, build, then destroy." — B.G. Hunter ▶

SIMMI Simple Mrs **Simply The Best** Amiga Hard Drive.

Before you buy a hard drive, look around. Look closely. Compare speeds, but also look at Interfaces...Software...Value. We think you'll agree that SupraDrives are Simply The Best Amiga Hard Drives. Here's why ...



Each SupraDrive for the A500/A2000: Autoboots directly from FFS partition . Interface allows super smooth video, sound, etc., with no rude interruptions for hard drive access . Compatible with Bridgeboard™, RAM, digitizers, other boards . Supports MS-DOS disk partitions with Bridgeboards . Installs easily . Pre-formatted & ready to use Includes 2 floppy disks of software & clear, thorough manual . Fine tuned assembly language driver software . Blind data transfers improve speed 3x Knowledgeable tech support Interfaces also available separately

SUPRADRIVE FOR AMIGA 500

with AMIGA BUS PASS-THROUGH for unlimited expansion • **OPTIONAL 2MB RAM**



All Supra Products Are Made in the U.S.A.

Breakthrough Speed.

SupraDrives give you access times as low as 11 ms. and data transfer speeds of over 500K/sec. (Amiga® 2000) or 326K/sec. (Amiga 500).

Features like full support of Workbench™ 1.3, the Fast File System (FFS), and multitasking make these drives FLY.

State-of-the-Art Interfaces.

Supra's interfaces (included with every SupraDrive) give you innovative features no one else can match. The revolutionary WordSyncTM Interface transfers 16 bits at once, which gives A2000 Supra-Drives DMA speed without DMA hassle. The A500 interface passes the Amiga bus signal through to your other peripherals; without Amiga bus pass-through, your system is severely limited. And all Supra interfaces feature SCSI ports for easy daisy-chaining.



SupraFormat 1

The Best Software.

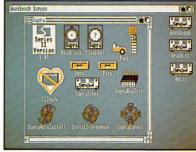
After installing the drive, you'll be glad you have Supra's full array of powerful, easy-touse software. SupraFormat makes formatting a breeze and lets you use up to 30 partitions and various file systems — FFS, MS-DOS®, Unix, Macintosh™, and more! SupraEdit lets you access low-level Amiga system information, and other included programs make using a hard disk fun and easy.



All this is available at a price you'll love. Look into it! Only Supra Corporation an experienced company with a proven commitment to the Amiga and its potential — gives you such an attractive alternative: The SupraDrive. It's Simply The Best Amiga Hard Drive.



SupraEdit™



Included Software

Ask your dealer for details, or call:



1133 Commercial Way Albany, OR 97321 503-967-9075 ORDERS: 1-800-727-8772 Circle 208 on Reader Service card.



Sports Cinemaware \$49.95

Play football against a friend or the computer, and lead your team through one game or an entire season. Choose your plays from a separate screen, then control your player with the joystick. In season mode, the program sets up a schedule and plays pairings where both teams are computer-controlled. It even keeps track of statistics and standings as the season progresses. With detailed graphics, bone-crunching sound effects, arcade action, strategy, and cheerleaders, TV Sports: Football offers something for all types of football fans.

"If you can't pass well, try running a wishbone. Actually this works a lot better if you are playing teammates, because the computer does not expect the laterals."

-Patrick Quaid

"Pick a few good plays and stick with them. When running out the clock, pick the formation but not the play and wait for the clock to run down to about three seconds, then pick and play." —B.G. Hunter



Best Strategy Maxis Software (distributed by Broderbund) \$44.95

Want to move, but can't afford the new house? With Sim City you can build a new city right in your own house. A city simulator based upon an American Urban Architecture model, the game lets you plan, develop, and manage a city's growth, taxes, budget, transportation, power sources, and more. Sadistic players can even inflict disasters (floods, fires, tornadoes, earthquakes, and monsters) on their cities. Before you take any action, you can poll the residents on how you're handling things or study the maps and graphs for more information. If you don't want to build your own, you can save the eight provided cities from their eight accompanying disasters within the allotted deadlines.

"As always, embezzlement is an undocumented option. Hold down the shift key and type

FUND. You'll be \$10,000 richer, and no one's the wiser, eh?"—Peter Olafson "When commerce demands an airport, put one in, but hook it up—it only causes plane crashes."—Sheldon Leemon



Best Arcade Discovery Software \$49.95

Large, gorgeous graphics make this vertically scrolling medieval slice-and-dice fest a stand out. As the hero or heroine, you must fight your way to and through the Castle Craggamoore and defeat Zoras the Necromancer to avenge his murder of your father. You are armed with only your sword, but will find other helpful items and magic spells along the way. Of course, you'll also find plenty of traps and Zoras' hench-creatures blocking your path. With a hot joystick and a judicious use of magic, you might make it through unharmed.

"Don't be scared off by the giant. He's big, but he's slow." — Peter Olafson



Best Sports Bethesda Softworks \$49.95

Wayne Gretzky Hockey simulates the good, bad, and ugly of hockey—fast action, teamwork, excitement, fights, fouls, and even bad calls. You can control a player for on-ice participation, stay be-

hind the bench to coach, or coach and play. You view the horizontally scrolling rink from above and control your player with the mouse or joystick. Whether you play the computer or a friend, you can handicap each other to play at high school, college, junior or professonal levels. As coach, you not only call the plays, but also make player substitutions. Each team member is rated from zero to nine for 11 characteristics. Make sure you have the best (and freshest) line on the ice for the situation.

"Chances are the moron who went offsides was you. The officials will make bum calls, so don't cut it too close." — Patrick Quaid



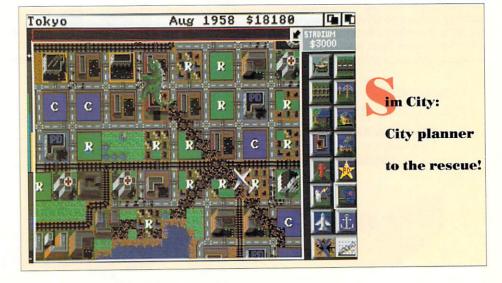
Best Action/Strategy Electronic Arts \$49.95

You play a god (evil or benevolent), aiding the expansionist policies of your own people and visiting earthquakes, floods, volcanoes, swamps, and more on the Other People, who are watched over by the computer or another omnipotent human. Essentially an icon-driven arcade chess game with real people, Populous offers 500 worlds to conquer, or use the world maker to design your own. "A good basic strategy is to create as much

"A good basic strategy is to create as much flat land (hence ripe for settling) as possible. Focus first on expanding settlements."

-Peter Olafson

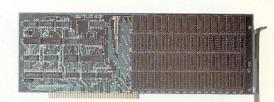
"Never cause a flood when your own people occupy the low lands!" —Sheldon Leemon ▶



SupraDrive

SupraModem 2400zi

SupraRam 2000





- WordSync Interface Kit also available separately
- Interface transfers 16 bits at once, giving DMA Speed Without DMA Problems
- Eliminates the sound, video, and serial I/O interruptions found with DMA iinterfaces
- 1-slot design & SCSI-out port
- Easy On/Off Autoboot Jumper
- Compatible with Amiga Bridgeboard, RAM, digitizers, and other boards
- Includes SupraBoot & SupraTools — two full disks of utility software
- Up to 30 Partitions
- All available file systems supported: FFS, MS-DOS, Unix, Macintosh, etc.
- Access to low-level parameters without maintaining MountList
- Excellent Technical Support
- Made in the U.S.A.

30MB (40 ms. RLL) **\$649 45MB** (28 ms. RLL) **\$749 80MB** (11 ms. RLL) **\$1299**

WordSync Interface Kit \$19995

- Half card modem fits in any Amiga bus slot
- Up to 5 modems per computer
- Works with all popular Amiga telecommunications software
- 100% compatible with the industry-standard "AT" command set
- Asynchronous 2400/1200/300 baud operation
- Compatible with Bell 103/212A and CCITT V.21/V.22/V.22bis
- Autoanswer/Autodial (tone or pulse)
- Adjustable-volume speaker
- Nonvolatile memory stores custom modem configuration and one telephone number
- Includes free subscriptions to popular on-line services
- Made in the U.S.A.

2400zi \$179.95

- 2, 4, 6, & 8MB configurations available
- Installs easily into any Amiga internal expansion slot
- Easy to expand from your initial configuration — Start with 2MB & add RAM at your convenience
- 6MB configuration allows for maximum benefit with the Amiga Bridgeboard
- Lets you run larger and more sophisticated programs
- Allows creation of large and extremely fast RAM disks
- Test mode & test software make troubleshooting easy
- Made in the U.S.A.

8MB RAM Board	
with 2MB Installed	\$499
with 4MB Installed	\$845
with 6MB Installed	\$1145
with 8MB Installed	\$1395

AVAILABLE AT YOUR LOCAL DEALER, OR CALL:



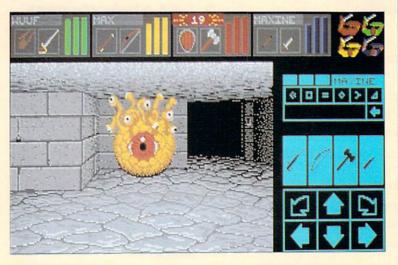
Supra Corporation

1133 Commercial Way Albany, OR 97321 Voice: 503-967-9075 Fax: 503-926-9370

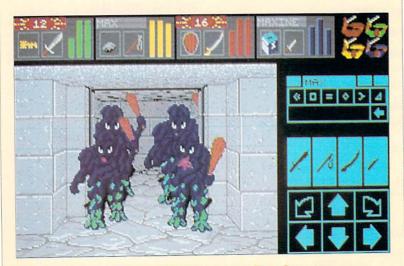
ORDERS: 1-800-727-8772



Explore carefully, or this could be you.



Will you fight?



Find the speedboots and you can flee faster.



Dungeon Master

Best Game Best Role-Playing Adventure Software Heaven \$39.95

The paramount dungeon adventure, Dungeon Master leaves all others of its ilk lurking in the shadows. You select four heroes, each with unique characteristics, and set out to recover the Fire Staff, stolen by Lord Chaos and hidden in his dungeon. As you descend through the 14 levels of serious hell, puzzles and foes get progressively tougher. Luckily, you can hear the sounds of approaching monsters. Don't get so busy fighting that you and your band forget to eat, drink, and rest. The game is played in real time (with the mouse), and you'll need your health and stamina. Keep your eyes open too for weapons, armor, and scrolls of magic spells strewn around the corridors. The complex puzzles combined with a simple interface make Dungeon Master accessible to beginning adventurers and intriguing to even the most jaded.

"The early nasties can be taken on head to head. The trees are even edible. Bash it out then, but don't be afraid of retreating from some of the ones that follow. Lure them from corridors into wider spaces where you can practice the 'Dungeonmaster Two-Step:' Float like a butterfly and sting like a purple worm." —Peter Olafson "Here's a handy way to inflict damage when you're weaponless: Lure monsters into a gate or doorway, then click to close the door on them."

-Peter Olafson

"You can only move as fast as your slowest member. Keep your two front scouts suited in the best armor and your supplies evenly distributed."

—Lou Wallace

"Look at what's on the walls, including dungeon fixtures you see constantly. Items are hidden everywhere."

-Linda Barrett ■



THE DESTRUCTION OF THE BARRAY EMPIRE!

Whirling Barrax ships dart out from the dark spiral caves and mack from the right. You bank hard left, launching "smart" bombs. Look out! One of those dark "chameleons" is dead ahead — they're tough to spot and even tougher to stop!

Avenge the Barrax Empire's deadly attack on earth in BATTLE SQUADRON. You'll be fighting on their turn, but you carry the most devastating arsenal in the universe. And if you're the best combat pilot, you just might succeed!

- ♦ Spectacular digitized sound hear every explosion and collision.
- Single or two-player action with vertical and horizontal scrolling.
- More than 30 continuous minutes of sparkling background graphics.
- The toughest arcade challenge in any galaxy!

INNERPRISE

128 Cockeysville Rd • Hunt Valley, MD 21030 • (301) 785-2266

Can't find Battle Squadron? Call for MC/VISA orders or send check money order (U.S. \$) for \$39.95 plus \$2.50 shipping and handling. Battle Squadron is a trademark of InnerPrise Software, Inc. Amiga is a trademark of Commodore-Amiga, Inc.

Circle 254 on Reader Service card.

Now Available for Amiga!

Now Available for Amiga!

Suggested retail price: \$39.95!

GHOSTS OF GAMES FUTURE

Unlike the bleak vision shown to Scrooge by Marley's Ghost, the future of Amiga games is full of promise and excitement.



F THE 1989 Computer Game Developers' Conference in San Jose was any indication, we should be seeing some dazzling new innovations in the Amiga game market for 1990 and beyond.

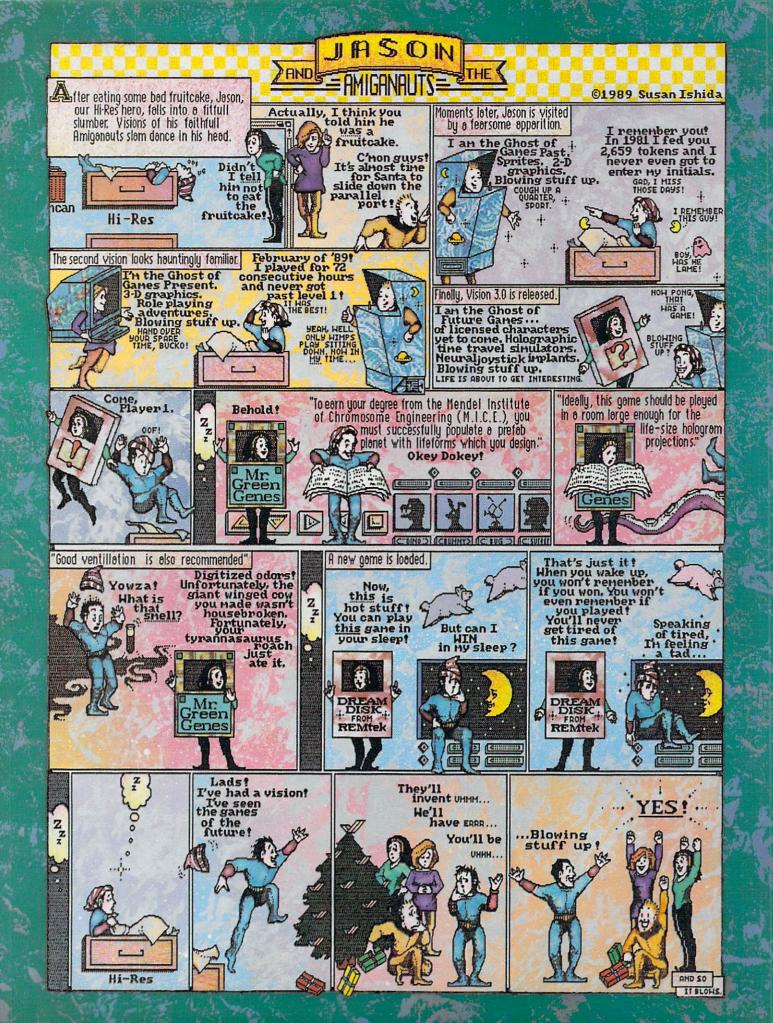
With over 300 game designers and developers in attendance, the Conference confirmed that the Amiga is currently the fastest growing computer for game software, and in 1990 it should pull into the No. 2 slot behind MS-DOS machines. And although many publishers may still develop their games first on MS-DOS machines, the majority will be following up with Amiga versions almost immediately—with some planning to develop specifically for the Amiga and its special capabilities.

Look for some Amiga games to require even one megabyte of memory and two disk drives, although the majority of games will still keep to the 512K standard as long as the A500 retains that amount as its base memory. Some developers plan to support extended memory to help buffer the flow of graphics or sound data from disk, creating a faster-playing game. Now that 68020 boards are more common, all games will be compatible with it.

More games will take advantage of some of the Amiga's unusual capabilities, such as HAM mode, multitasking, and four-channel stereo sound. Some publishers (most likely the smaller European developers) may initially use these as gimmicks to attract attention to their products, but they will probably be more widely exploited given a little more time. The new Fat Agnus chip will make possible larger graphics and sound files, but most publishers won't take advantage of this until the majority of machines have one (perhaps in 1991). Also, as hard-disk drives become more common, more games will work from one (the way Zany Golf from Electronic Arts or BattleChess from Interplay Productions do now). On-disk copy protection is becoming less popular, as publishers increase their use of code wheels, maps, and other tools that make copying difficult and annoying.

Many developers are adding a modem option to their games for multiplayer action. Modem options are usually found on a flight simulator, but developers plan also to use them in role playing and strategy games. Information services and networks will be offering more games with greater sophistication—

By Steve Peterson



Amiga-specific "front ends" with stunning graphics and sound and the ability to play the game with dozens or even hundreds of other people.

SAMES FUTURE CATCHING UP WITH AMIGA PRESENT

Much of the progress in game development will come about as software publishers begin seriously to tap the present capabilities of the Amiga. Graphics is one area developers are always striving to improve. Many current games use only 16 colors in 320 × 200 mode, as that makes it easy to move game graphics from the Amiga to the IBM or the Atari ST. But increasing competition has ruled that out for most games, and 32 colors are becoming the standard. Some games, particularly those from Psygnosis (such as Menace) are using Extra_Halfbrite mode for 64 colors, and overscan for even larger screen sizes than normal. We have seen already a HAM mode game (Pioneer Plague from Terrific Software) using all 4096 colors at once. Because many games are being ported to the Amiga from the IBM's 256-color MCGA mode, we will see more Extra_Halfbrite and HAM games in the future, as developers use the larger palettes to their fullest extents.

Animation is, of course, a key strength for the Amiga, where the blitter allows for faster animation than on any other personal computer. More publishers are trying out larger-size characters (à la Sword of Sodan from Discovery) for more realistic action. Silent Software (for upcoming games such as 20,000 Leagues Under The Sea) is using ex-Disney animators to give its animation that extra level of realism.

Sound is one of the Amiga's most powerful features, and more games are taking advantage of it. In order to keep music "portable" between different machines, many Amiga scores are being written for a synthesizer and stored as MIDI data. This data is then used to drive digitized instruments through the Amiga's stereo sound channels. Increasingly, developers are optimizing their scores for the Amiga's four-channel sound, adding stereo effects for added impact. In the future, a MIDI output option may be available on some games. (You will, of course, need MIDI equipment to use such an option.)

Sound tracks and sound effects will get better as developers become more familiar with the technology. Expect continuous music sound tracks (as in games such as Menace from Psygnosis) to be the standard in the near future. Eventually, we will hear interactive, context-sensitive music that responds to the current game situation: When your character is in trouble, the ominous piano tones will boom, and when the villain appears, the violins will shriek. (Sierra On-Line is developing in this area now.)

THE SOUL OF THE GAME

While graphics, sound and hardware considerations are important, they are only the exterior of a game. The soul of a game lies in its design and story, and more effort is being put there. MicroProse, for in-

stance, has hired a staff of experienced game designers from board-game and role-playing-game companies specifically to design (not program) its games. Other publishers are now bringing in writers and designers to help make their games better-written, more involving, and more exciting.

Many developers are trying to go beyond the basic shoot-'em-up or dungeon crawl. Cinemaware brought a new mix of arcade action and storytelling to the Amiga with Defender of the Crown and other titles. MicroProse is trying to blur the boundaries between action, simulation, and role-playing games. Its F-19 (coming soon for the Amiga) has RPG and simulation elements in its flight simulator combat missions, while its upcoming Samurai uses RPG, action, and war-game elements.

One of the few things that future games will have in common will be simpler interfaces. More games will have rows of icons (as in Dungeon Master from Software Heaven), rather than text commands, making international versions easier. Less violent themes and more cooperation will be another future trend.

Fantasy, science fiction, action, and sports will continue to be popular subjects for games. Licensing of popular movie and book titles will become even more common. In fact, there will be more efforts at making licensed products come close to the original. With Lucasfilm's Indiana Jones and The Last Crusade, several scenes that were cut from the movie appear in the game, and both George Lucas and Steven Spielberg participated in the design process. We will also see more cross-marketing of computer games with other media—such as paper games, comic books, and novels-to create multimedia game experiences. At present, for instance, a board-game version of the Ultima series from Origin Systems is planned, while Infocom's BattleTech role-playing game is also available in paper-game and book formats, and an arcade game is currently in testing.

Beyond the next few years, future visions include CD-ROM technology, which allows 600 megabytes of data. The results on an Amiga would be stunning: How does TV-like graphics and animation with full orchestral sound tracks grab you? New ways of interacting with the computer, such as individual eyescreens, body-movement sensors, or even direct neural connection, will completely transform the game interface. The games that are being forged now in the cauldrons of software development are the tools that will build this new industry. (*Note*: For addresses and telephone numbers of game developers mentioned in this article, consult the "Manufacturers' Addresses" box at the end of the Games Buyer's Guide on p. 58.)

Steve Peterson founded his own role-playing-game company in 1981, has worked for a major game developer, and written a choose-your-own-adventure book. Write to him c/o AmigaWorld, Editorial Dept., 80 Elm St., Peterborough, NH 03458.

KEPTHE CHANGE

It looks, feels, and plays like a real Arcade game . . . because it is!

But you don't have to wait your turn at the Arcade to put your quarters into this new high-energy game . . . you can take it home to play on your personal computer!



WORLD Trophys OCCER

Rick Davis's World Trophy Soccer features real-to-life animation designed and programmed by professional cinema animators! The superb multidirectional scrolling is so smooth and fast it can make you dizzy just watching it!

Play with a friend, and you'll both have a lot of fun. Play against the computer, and you're in for the wildest challenge ever!

It's literally like bringing an Arcade machine home!





NOW SHIPPING FOR: COMING SOON FOR:

Amiga (1 meg.) \$49.99 IBM 5-\(\mathcal{Y}''\) \$39.99 IBM 3-\(\frac{1}{2}''\) \$39.99

Amiga (512K) \$39.99 Atari ST \$39.99 Commodore 64 \$29.99





Setting New Standards IN-COMPUTER-SOFTWARE Distributed by

WASTERTRONSE

18001 Cowan Irvine, CA 92714 (714) 833-8710

FOUR COMPUTER HACKERS ARE ABOUT TO RAID YOUR DISK DRIVE.



No computer will go unscathed, as Ultra's version of Teenage Mutant Ninja Turtles® storms into your disk drive to duke it out with Shredder™—a maniac more menacing than an army of mind-altered Bruce Lees.

But if they're to survive, you must command the role of each turtle, rumbling through a maze of Mouser™ infested sewers, criminally polluted rivers and alleys patrolled by the fanatical Foot Clan.™

Along the way, search for bonus weapons like the Triple Shuriken. You'll have to also think fast, switching turtle identities in order to match their karate skills with those of the enemy.

So grab your joystick and nunchukus, then control every leap, chop, slice and dice, until you splatter Shredder senseless or get yourself hacked into turtle soup.

Now featuring the ULTRA® "GAME SAVE" command.





Teenage Mutant Ninja Turtles, Stredder, Foot Clan and Mouser are registered trademarks of Mirage Studios, USA. All Rights Reserved. Used with permission.

Based on characters and comic books created by Kevin Eastman and Peter Laird. © 1989 Mirage Studios, USA. Exclusively licensed by Surge Licensing, Inc. IBM is a registered trademark of International Business Machines, Inc. Commodore' is a registered trademark of Commodore Electronics Ltd. Amiga' is a registered trademark of Commodore-Amiga, Inc. UITRAGAMES' is a registered trademark of Ultra Software Corporation. © 1989 Ultra Software Corporation. Teenage Mutant Ninja Turtles is available for IBM, Commodore and Amiga.

The Great Amiga Games Buyer's Guide



FEEL THE URGE to conquer medieval Britain? Hop a spaceship to the planet Drax? Maybe you'd prefer a Rambo-fest of destruction? Whatever your fantasy, our Games Buyer's Guide offers a way to live it out.

With the entertainment market expanding at warp speed, we decided it deserved a product listing all its own (stay tuned for our annual applications software buyer's guide next month), and deluged games manufacturers with questionnaires. The *AmigaWorld* offices were then equally flooded with responses, which we sorted and cataloged in the eight categories listed below. (For an explanation of each, see the sidebar "Before You Play" on page 28.)

To keep the listing from being a complete flight of fancy, we listed only games already on the market or with a promised release date of November 31. Such promises—as well as prices and product names—are subject to change. If a company had decided on a release date but not a price, we listed NA (Not Available) in the Price column. For descriptions of last minute pre-Christmas goodies, watch our New Products column, "What's New?."

Action/Strategy	Role-Playing Adventures 5
Arcade	Sports
Flight Simulators	Strategy5
Graphics Adventures	Text Adventures5

By Jan Jackson

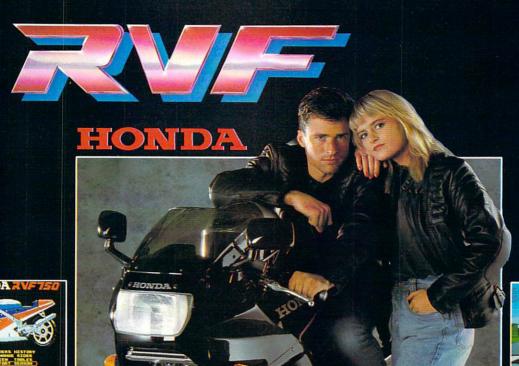




ACTION/STRATEGY

PRODUCT	COMPANY	PRICE	DESCRIPTION
4-In-One: Easy But Fun	Polyglot	\$14.95	Play Slot Cars, Circuit Mania, Shuffle Puzzle.
Andromeda Mission	Demonware	\$39.95	See M31 in style.
Axe of Rage	Epyx	\$49.95	Avoid cave crud, lava rivers, dripping gore.
Battleship	Epyx	\$29.95	Naval combat.
Beyond Dark Castle	Activision	\$39.95	Bomb and jetpack thru catacombs, swamps.
Carrier Command	Medalist	\$44.95	Strategy—resolve the energy crisis.
Death Sword	Ерух	\$29.95	Head-to-head medieval sword battle.
Defcon 5	Cosmi	\$39.95	Star battle simulation.
Defender of the Crown	Cinemaware	\$49.95	Lead Saxon swordsmen against the Normans.
Destroyer	Ерух	\$19.95	Command a US destoyer.
Devon Aire	Epyx	\$49.95	Prowl a wealthy household for diamonds.
DinoWars	DigiTek	\$39.95	Interactive game-includes encyclopedia.
	Interstel	\$49.95	Join an elite international strike force.
Dragon Force Federation	Cinemaware	\$39.95	Strategic space trading, combat adventure.
Fire Zone	Datasoft	\$34.95	Simulates combat scenario in the 21st Century.
	Titus	\$44.95	Foil an alien take-over.
Galactic Conqueror Gold Runner II	Microdeal	\$39.95	Defend yourself from space pirates.
	Strategic Sim.	\$39.95	Advanced Dungeons and Dragons module.
Heroes of the Lance	Microdeal	\$39.95	4-pack of Microdeal favorites.
Hits Disk Vol. I	Datasoft	\$49.95	Submarine simulation based on Clancy no .
Hunt for Red October		\$39.95	US forces in Central America.
Ikari Warriors	Elite	\$19.95	Explore eight towers, avoid robots, mines.
Impossible Mission II	Epyx	100	Space battle.
Insanity Fight	Microdeal	\$39.95	
It Came from the Desert	Cinemaware	\$49.95	Suppress giant, flesh-eating insects.
King of Chicago	Cinemaware	\$24.95	Violence, intimidation, bribery.
Kingdoms of England	Incognito	\$44.95	Strategy game with graphics.
Knights of the Cryst.	Terrific	\$39.95	Five inter-dependent, HAM mode games.
Lazer Squad	MicroIllusions	\$39.95	Pack of MicroIllusions' hits.
Licence to Kill	Broderbund	\$34.95	As 007, bring a drug-lord to justice.
Lords of the Rising Sun	Cinemaware	\$49.95	Command armies of samurai.
Major Motion	Microdeal	\$39.95	Drive in jeopardy against the Lawless League.
Manhunter San Francisco	Sierra On-Line	\$49.95	Adventure strategy.
Matrix Marauders	Psygnosis	\$34.95	Maze action.
Mighty Nerd	ISM Inc.	\$49.95	Edit powers of an odd superhero.
Mind-Roll	Ерух	\$29.95	Maneuver a globe through astral planes.
Pioneer Plague	Terrific	\$39.95	Stop a terra-forming robotic space ship.
Police Quest	Sierra On-Line	\$49.95	Law-enforcement simulation.
Populous	Electronic Arts	\$49.95	You play god—500 worlds to rule.
Project Neptune	Ерух	\$39.95	Underwater in a sub or in scuba gear.
Purple Saturn Day	Epyx	\$39.95	Intergalactic sports with aliens.
Quadralien	Spinnaker	\$39.95	Destroy evil Quadaliens infesting Astra.
Return to Atlantis	Electronic Arts	\$19.95	Aquatic adventure.
Revenge of Defender	Ерух	\$34.95	Laserize otherwordly opponents.
Rocket Ranger	Cinemaware	\$49.95	Battle 1940 Nazis and their machines.
Rubicon Alliance	Datasoft	\$29.95	Pilot a Starfox fighter, planetary conflict.
Sinbad and the Throne	Cinemaware	\$29.95	Battle dark and mysterious forces.
Skyfox	Electronic Arts	\$19.95	Combat flight simulation.
Skyfox II	Electronic Arts	\$19.95	Travel faster in a 3-D environment.
Snow Strike	Ерух	\$39.95	Attack South American drug lords.
Space Station Oblivion	Ерух	\$19.95	3-D terrain to explore by land or air.
Star Trek V	Mindscape	\$54.95	Assume the role of Captain Kirk.
Starglider II	Medalist	\$44.95	Interplanetary battle strategy.
Stargoose	Spinnaker	\$39.95	Steal power crystals from one of eight cities.
Street Cat	US Gold	\$24.95	Multi-event feline sports activities.
Sub Battle Simulator	Epyx	\$19.95	Command US or German subs of WWII.













Strap on your driving gloves!

RVF Honda puts you in the seat of one of the world's most powerful two-wheeled machines for high-speed Formula One motorcycle excitement!

- · Realistic bike controls and race conditions give the feel of authentic Formula One racing!
- · Dazzling, detailed graphics and digitized engine sounds make the action even more intense.
- Race on famous European tracks such as Donington Park, Hockenheim, and Salzburgring!
- 22 challenging courses on three racing levels provide constant challenge for novice and experienced cyclists. Compete at club level, in national events, or on the no-holds-barred international circuit!
- · Scoring accurately based on the championship points system.

Win Great Prizes with Medalist "Medal Madness" Starting September 1.
See your local retailer for details.

NEW FROM MEDALIST INTERNATIONAL

A marketing division of MicroProse Software, Inc. 180 Lakefront Drive • Hunt Valley, MD 21030 Circle 198 on Reader Service card.





Can't find these games? Call 301-771-1151 X-208 weekdays 8:30am to 5pm Eastern and order by MC/Visa/AmEx. Or mail check or money order. Send \$39.95 for Amiga and Atari compatibles and/or \$39.95 for IBM/Tandy compatibles. Includes shipping in US. Add \$5.00 for international orders. US funds only. MD residents add 5% sales tax. Allow 1-3 weeks for US delivery. Copyright© 1989 MicroProse Software Inc. Copyright© 1989 Ed Hickman.

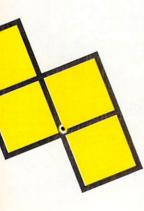


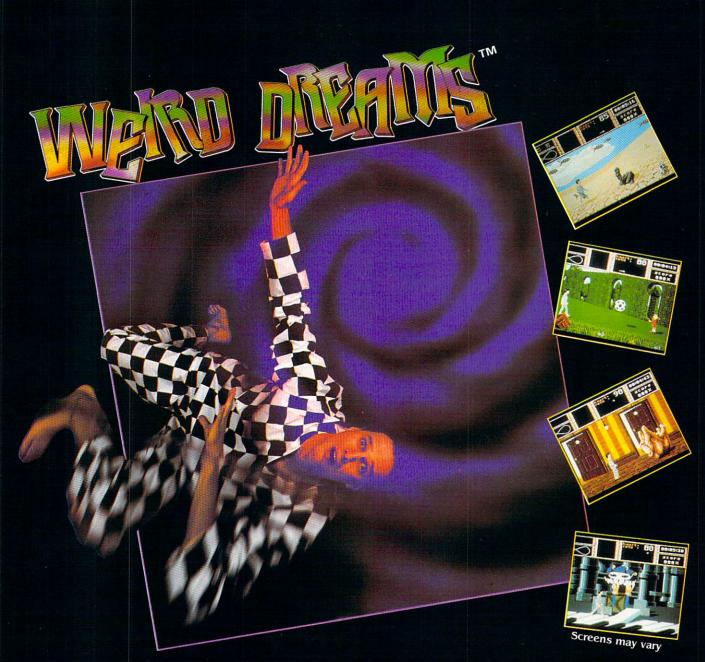


Technocop	US Gold	\$49.95	Cops and robbers of tomorrow.
Telewar	Telegames	\$39.95	Tank, naval, and space battles by modem.
The Colonel's Bequest	Sierra On-Line	\$59.95	Solve a murder.
Titan	Titus	\$66.95	Solve 80 levels of challenging puzzles.
Total Eclipse	Cinemaware	\$39.95	Locate and destroy an evil shrine.
Tower Topler	US Gold	\$49.95	3-D spiraling, rotating towers.
Turbo 20-20	Gainstar	\$39.95	3-D road war simulation.
U.F.O.	SubLOGIC	\$49.95	Spacecraft flight simulator.
Victory	Demonware	\$39.95	Arcade-action, strategy.
Welltris	Spectrum Hol.	\$34.95	3-D Tetris-style game.
Zero Gravity	Microdeal	\$39.95	Play ball in weightlessness.

ARCADE

PRODUCT	COMPANY	PRICE	DESCRIPTION
Aaargh!	Arcadia	\$39.95	Your monsters munch through 11 cities.
Action Fighter	Mindscape	\$39.95	Careen in a crime-fighting motorcycle.
After Burner	Mindscape	\$49.95	Pilot an F-14 Tom Cat.
Airball	Microdeal	\$39.95	Play ball in a house full of sharp objects.
Ajax	Konami	\$44.95	Command attack copter and jet fighter.
Alien Legion	Gainstar	\$39.95	Horizontal scrolling-shoot'em up game.
Alien Syndrome	Mindscape	\$39.95	Rescue crew of alien-infested space ship.
All Dogs go to Heaven	Polarware	\$49.95	Three dog's antics as in the film.
Aqua Ventura	Psygnosis	\$49.95	Move solid objects on scrolling screen.
AquaBlast	Elite	\$34.95	Complete your mission via complex waterways.
Archipelagos	Logotron	\$39.95	Quasi-tropical landscape with aliens.
Arcticfox	Electronic Arts	\$19.95	Arcade tank game.
Arkanoid	Discovery	\$29.95	Breakout-style arcade with 66 levels.
Artura	Arcadia	\$39.95	An arcade adventure with enemies and traps.
Aunt Arctic Adventure	Mindware	\$39.95	Help Charlie the Chimp and Penguin Pete.
Awesome Arcade Action	Arcadia	\$49.95	Xenon, Blasta Ball, and Sidewinder.
Baal	Psygnosis	\$29.95	Scrolling screen features 100 monsters.
Ballistix	Psygnosis	\$34.95	Play alternates between soccer, pinball
Barbarian	Psygnosis	\$39.95	You are Hegor the dragon-slayer.
Battle Squadron	Innerprise	\$49.95	Battle chameleon-like enemy.
Black Shadow	Scorpion	\$34.95	Save earth from a deadly asteroid.
Blood Money	Psygnosis	\$49.95	Sequel to Menace.
Bomb Busters	ReadySoft	\$29.95	Bombs to defuse.
Bubble Bobble	Taito	\$39.95	Brontosaurus pair rescue friends from villain.
Bubble Ghost	Accolade	\$19.95	Maneuver a bubble-blowing ghost.
Capone	Actionware	\$39.95	1920's-style arcade shoot-'em up.
Captain Fizz	Psygnosis	\$29.95	Two-player, co-operate-or-die alien blasting.
Castlevania	Konami Inc.	\$44.95	Tour past blood-thristy rogues gallery.
Charon 5	Mindware	\$34.95	Strategy and arcade action through 11 levels.
Clever and Smart	DigiTek	\$34.95	Help two bumbling detectives.
Combat Course	Mindscape	\$29.95	Train at a top-secret training camp.
Combat Zone	Keypunch	\$19.95	Tank and helicopter combat.
Contra	Konami	\$39.95	Guerilla warfare for the survival of the earth.
Cosmic Bouncer	ReadySoft	\$29.95	Tennis ball comes to life.
Creature	Actionware	\$39.95	Alien-eliminating while avoiding creature.
Crystal Hammer	Reline	\$19.95	Breakout-style arcade game.
Dark Castle	Three-Sixty	\$44.95	Battle the Black Knight.
Datastorm	Visionary Design	\$39.95	Futuristic shoot 'em up.
Denaris	HardWired	\$39.95	Help the Denarians shake the yoke of bondage.
Double Dragon	Arcadia	\$39.99	Amiga version of a popular arcade game.
Double Dragon II	Virgin Mast.	\$39.99	Martial arts for your Amiga.
Double Diagon II	viigin mast.	φ33.33	martial arts for your Allinga.





Steve went to the hospital for minor surgery. He left with major problems.

Sleeping is supposed to be the easiest part of going under the knife. But not for Steve. His dreams are trying to kill him.

To survive he must escape the sometimes frightening, sometimes laughable phantasms burrowing through his subconscious.

Does major medical cover something like this?

Win Great Prizes with Medalist "Medal Madness" Starting September 1.

NEW FROM INTERNATIONAL

A marketing division of MicroProse Software, Inc. 180 Lakefront Drive . Hunt Valley, MD 21030

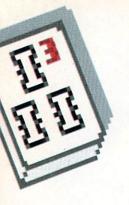
Circle 29 on Reader Service card.





Coming soon for IBM-PC/Tandy/compatibles, C-64, Amiga, and Atari ST. Can't find Weird Dreams? Call (301) 771-1151 x208 weekdays 8:30 am - 5:30 pm EST. © 1989 MicroProse Soltware, Inc. © 1987 Best Ever Games Company. Co-conception: Herman Serrano and Tony King. Co-design: Herman Serrano, James Hutchby and Tony King.



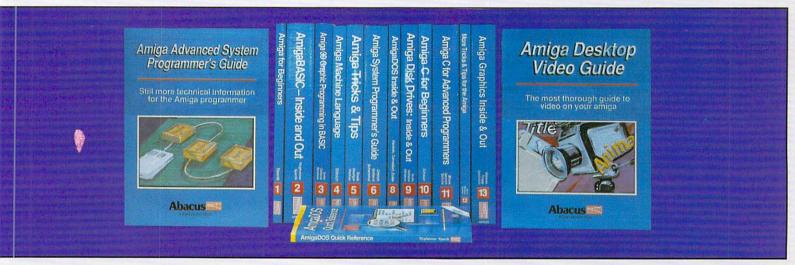


Dragon's Lair	ReadySoft	\$59.95	Save the princess from Singe.
Ebonstar	MicroIllusions	\$24.95	Arcade space game.
Eliminator	Hewson	\$34.95	Space highway arcade action.
Emerald Mine I & II	Kingsoft	\$19.95	Puzzles, each sold separately.
Evil Garden	Demonware	\$39.95	Arcade action.
Exolon	Hewson	\$34.95	Space adventure, arcade action.
Eye of Horus	Logotron	\$39.95	Assemble pieces of body to vanquish evil.
Fiendish Freddy's	Mindscape	\$49.95	Play circus games while tormented by clown.
Final Mission	DigiTek	\$29.95	Dig and climb through 350 levels.
Fire and Forget	Titus Software	\$39.95	Maneuver your car through enemy lines.
Firepower	MicroIllusions	\$24.95	Arcade tank game can be used over modem.
Footman	Incognito	\$34.95	Guide footman while being pursued.
Foundations Waste	Scorpion	\$34.95	Escape from a prison camp planet.
Fright Night	MicroDeal	\$39.95	You are a sinister, blood-sucking vampire.
Ganymed	ReadySoft	\$29.95	Head Star Warriors against Deathbots.
Gauntlet II	Mindscape	\$49.95	Thor, Thrya, Questor, and Merlin all return.
Gunshoot	DigiTek	\$34.95	Shoot criminals but avoid the civilians.
Hex	Mark of Unicorn	\$39.95	Arcade/strategy board-style game.
Hybris	Discovery	\$39.95	Hyperspace arcade shoot 'em up.
Hyperdome	Scorpion	\$34.95	Collect nine weapons for defense from aliens.
I Ludicrus	Scorpion	\$34.95	Roman Colosseum fighting.
Indiana Jones: Crusade	Lucasfilm	\$39.95	A three-level game with two-action events.
Indiana Jones: Temple	Mindscape	\$49.95	Travel through caverns, tunnels.
Jinks	HardWired	\$29.95 \$34.95	Fun with Jinks.
Joe Blade	DigiTek Microdeal	\$39.95	Rescue six world leaders held hostage. You are a humanoid in 36412 AD.
JUG Keef the Thief	Electronic Arts	\$49.95	Pick locks with crowbars.
Knight Force	Titus	\$44.95	Liberate the princess.
Kybos	Bethesda	\$39.95	Capture a 3-D, rotating cube.
Leatherneck	Microdeal	\$39.95	US Marine Corps adventure.
Legend	Scorpion	\$34.95	Good and evil forces struggle for control.
Leonardo	Centaur	\$44.95	Steal diamonds while avoiding guards.
Marble Madness	Electronic Arts	\$19.95	Based on popular arcade game.
Master Ninja	Paragon	\$29.95	Martial arts adventure.
Menace	Psygnosis	\$29.95	Move solid objects through 3-D playing field.
Netherworld	Hewson	\$34.95	Mystical space journey action.
NY Warriors	Virgin Mast.	\$49.99	Amiga version of the popular arcade game.
Off-Shore Warrior	Titus	\$39.95	Anything goes speed boat race.
Ogre	Origin	\$29.95	Battle a mechanized tank.
Operation Wolf	Taito	\$34.95	Rescue hostages from South America.
Oswald	Centaur	\$44.95	As a large, white bear, jump on ice.
P.O.W.	Actionware	\$39.95	Rescue US soldiers from southeast Asia.
Paperboy	Mindscape	\$49.95	Summon your best bike-riding skills.
Phantasm	Scorpion	\$34.95	3-D solid object planetary exploration.
Powerdrome	Electronic Arts	\$39.95	Race aircraft through tunnel courses.
Powerstyx	DigiTek	\$34.95	Battle biting skulls and deadly crosses.
Prison	Actionware	\$39.95	Escape from prison on abandoned planet.
QIX	Taito	\$39.95	Elude waves of energy and destroy virus.
Rambo III	Taito	\$34.95	Stage and carry out a daring resue.
Rampage	Activision	\$39.95	Three monsters to control, cities to trash.
Rastan	Taito Taito	\$34.95 \$34.95	As ancient war lord, you destroy evil. Street-style karate on subways and piers.
Renegade Road Raider	Mindscape	\$49.95	Race against time, rebel killer cars.
Rush 'N Attack	Konami	\$39.95	Free POWs armed with only a knife.
S.D.I.	Cinemaware	\$24.95	Stop ruthless KGB fanatics.
Shinobi	Mindscape	\$49.95	Fend-off thugs, rescue hostages.
Shoot 'Em Up Construct.	Accolade	\$19.95	Create your own shoot 'em up games.
Side Arms	Capcom U.S.A.	\$39.95	Defend Earth from aliens.
Sideshow	Actionware	\$44.95	Carnival midway-style games.
Sky Shark	Taito	\$34.95	Pilot P-40 Tiger Shark into enemy lines.



Too Many Books

'e publish too many books... too many that is if you have only a few questions or need only a limited amount of information about your Amiga. ut if you have a lot of questions, chances are one of our books will answer your questions. Just look at our range of titles:



There is a reason why we're the number one publisher of Amiga books. In fact, there are a number of reasons. Fifteen to be exact.

niga For Beginners-introduces you to Intuition, the use, windows, the CLI, and AmigaBASIC.

vers Workbench 1.3 Info BN 1-55755-021-2 178pp

Best Seller

\$16.95

ASIC Inside & Out*-step-by-step quide to nigaBASIC. Every AmigaBASIC topic includes arts, windows, 1 down menus, files, mouse and ech commands Best

vers Workbenc

3 Info BN 0-916439-87 548pp

Seller

\$24.95

Graphic Programming in BASIC*-details writing graphic programs: ray tracing in all resolutions, ht sources and shading, and more.

BN 1-55755-044-1 360pp

\$19.95

achine Language*-comprehensive introduction to 000 assembler ML programming covers 68000 croprocessor address modes and architecture, speech i sound and more.

BN 1-55755-025-5 264pp

icks & Tips*-presents dozens of tips on accessing raries from BASIC, custom character sets, nigaDOS, sound, important 68000 memory locations i much more!

BN 0-916439-88-7 342pp

\$19.95

System Programmer's Guide*-comprehensive guide to what goes on inside the Amiga in a single volume. Include the EXEC structure, I/O requests, interrupts and resource management, multitasking functions. ISBN 1-55755-034-4 442pp \$34.

\$34.95

Advanced System Programmers Guide*-follow-up volume of thorough explanations of accessing the facilities provided by the libraries, input and output of the Amiga and more. \$34.95

ISBN 1-55755-047-6 570pp New

AmigaDOS Inside & Out*-covers insides of AmigaDOS. Includes reference section, tasks and handling, DOS editors ED and EDIT, create and use script files, multitasking and more.

Covers Workbench 1.3 Info ISBN 1-55755-041-7 274pp

\$19.95

Disk Drives Inside & Out*-in-depth reference covering the disk drives. Learn how to speed up data transfer, how copy protection works, computer viruses, DOS functions, loading, saving, seq. and random file organization, more.

ISBN 1-55755-042-5 346pp \$29.95

C for Beginners*-introduction to learning C language. Explains elements using examples geared to the Amiga. Describes C library routines.

ISBN 1-55755-045-X 284pp

\$19.95

C for Advanced Programmers*-how compliers, assemblers and linkers work, using Intuition, combining assembly language and C codes, and more. Includes complete source code for a C based text editor.

ISBN 1-55755-046-8 650pp

New \$34.95

More Tricks & Tips*-a collection of easy to use techniques, hints for Amiga owners, disable fast RAM, NewCon and Pipe devices, more.

Covers Workbench 1.3 Info

New ISBN 1-55755-051-4 218 pp \$19.95

Graphics - Inside & Out*-learn graphic programming in C with examples of points, lines, rectangles, polygons, colors and more. Contains a complete description of the Amiga graphic system-View, ViewPort, RastPort, bit-maps, screens, and windows. ISBN 1-55755-052-2 610pp

Desktop Video Guide-the most thorough guide to video on your Amiga. Explains Genlock, digitizing, Frame grabber, hardware, more.

New \$19.95 ISBN 1-55755-057-3 240pp

AmigaDOS Quick Reference-an easy-to-use reference tool for beginners and advanced programmers alike. You can quickly find commands by using the three handy indexes designed with the user in mind. Commands in alphabetical order for easy reference. Covers Workbench 1.3 info New

ISBN 1-55755-049-2 114pp

\$9.95 Price

Circle 124 on Reader Service card.

In U.S. and Canada add \$4.00 shipping & handling • Foreign orders add \$12.00 per item • MI residents add 4% sales tax

*Our books are filled with dozens of practical programming examples. You can save countless hours of typing by purchasing any of the optional disks. Each disk only \$14.95



Dept. L11, 5370 52nd Street SE Grand Rapids, MI 49512 Phone (616) 698-0330 • Fax (616) 698-0325

To order toll free call 1-800-451-4319





Slip Stream	Microdeal	\$24.95	Destroy aliens while flying through stream.
Space Harrier	Mindscape	\$49.95	Space is your battlefield.
Space Pilot	Demonware	\$39.95	Outer space blow 'em up.
Space Pilots.	Kingsoft	\$19.95	Arcade with four-directional scrolling.
Space School Simulator	Scorpion	\$34.95	Complete 20 different missions to graduate.
Speed Buggy	Elite	\$39.95	Bumpy ride over rought terrain—fences.
Speedball	Image Works	\$39.95	Futuristic sport—rapid-firing metal ball.
Star Wars	Broderbund	\$39.95	Arcade adventure based on the film.
Sword of Sodan	Discovery	\$49.95	Swords, demon, and wizard fighting.
Teenage Mutant Ninja	Ultra	\$39.95	Team up and help scour the NY sewers.
Tetra Quest	Microdeal	\$39.95	Athletes from several worlds assemble.
Tetris	Spectrum Holo.	\$34.95	Manipulate odd-shaped pieces into position.
Thexder	Sierra On-Line	\$34.95	Arcade battle.
Three Stooges, The	Cinemaware	\$49.95	Help the tumultuous trio save an old lady.
Thunder Blade	Mindscape	\$49.95	Dip to pick-off enemy patrols in cities.
Thunderboy	DigiTek	\$29.95	Battle the dragon, deadly butterflies.
Thundercats	Elite	\$34.99	Arcade fighing based on TV cartoon.
Tracers	MicroIllusions	\$24.95	Tracer duty: law enforement hell.
Transputor	Scorpion	\$34.95	3-D shoot'em up with sound effects.
Vampire's Empire	DigiTek	\$44.95	Conquer the count with mirrors and garlic.
Vegas Gambler	California Drms.	\$39.95	Slot machine, blackjack, roulette, video poker.
Viper	Incognito	\$34.95	Arcade action.
Vortex	Visionary Design	\$44.95	Enter the Vortex to survive.
Warlock	Three-Sixty	\$34.95	Seek the stolen Karna.
Western Games	DigiTek	\$34.95	Shootin', dancin', armwrestlin'
Who Framed Roger Rabbit?	Buena Vista	\$44.95	Based on the movie.
Xenophobe	Medalist	\$39.95	Classic game of alien extermination.
Zoom!	Discovery	\$29.95	3-D maze chase—50 levels, stereo sound.
Zynaps	Scorpion	\$34.95	Four levels of space shoot-'em-up action.



FLIGHT SIMULATORS

PRODUCT	COMPANY	PRICE	DESCRIPTION
Battle Hawks	Lucas Film	\$49.95	World War II naval-air combat.
Blue Angels	Accolade	\$44.95	Pilot one of the famous acrobatic jets.
F-19 Stealth Fighter	MicroProse	\$69.95	3-D cockpit graphics, 11 viewing perspectives.
F/A-18 Interceptor	Electronic Arts	\$49.95	Combat-flight simulator.
Falcon	Spectrum Holo.	\$49.95	Dogfight with MIGs in an F-16.
Flight of the Intruder	Spectrum Holo.	\$49.95	Vietnam-flight mission simulator.
Gunship	MicroProse	\$54.95	Combat helicopter flight simulation.
Hawaiian Odyssey Scenery	SubLOGIC	\$29.95	Role-playing adventure and flight simulator.
Instrument Pilot Scenery	SubLOGIC	\$149.95	Supplements IRF flying environment.
Operation: Counterstrike	Spectrum Holo.	\$24.95	Falcon extra missions disk.
Skyblaster	DigiTek	\$29.95	Air-ground, 3-D combat simulations.
SkyChase	Maxis	\$39.95	Two-player jet dogfight.
Super Huey	Cosmi	\$14.95	Helicopter flight simulation.

GRAPHICS ADVENTURE

PRODUCT	COMPANY	PRICE	DESCRIPTION	
Adventure Construction	Electronic Arts	\$19.95	Make your own adventures.	
Arazok's Tomb	Aegis	\$19.95	Illustrated adventure	

Slick up your joystick it's hot!



20432 CORISCO STREET. **CHATSWORTH CA 91311** 818-709-3693

Circle 17 on Reader Service card.

DARK CENTURY





YOU CONTROL THE GREATEST HIGH-TECH TANKS IN THE WORLD. YOU ARE ON A PRISON PLANET TRYING TO ARREST SOME ESCAPED CONVICTS. PROGRAM AND LEAD YOUR TEAM OF TANKS TO TRICK YOUR OPPONENT! RAY TRACED 3D UNIVERSE, MULTITASKING, ONE OR TWO PLAYERS ARE THE FEATURES OF THIS GAME.

KNIGHT =





YOU ARE THE SWORD MASTER, OF MAGIC GRAPHICS. LEAD LIBERATE THE PRINCESS

DEFENDER OF BELLOTH REALM. QUEST THROUGH FIFTEEN LEVELS AND FIVE ERAS YOUR ENCHANTED POWERFUL WEAPONS AND SPOIL THE MALEVOLENT TRAPS, TO TANYA FROM THE CLAWS OF RED SABAT THE SORCERER.





A SUPERCOP AND A BLACK PANTHER TEAM TOGETHER IN A HIGH RISK MISSION. "A TOP CIA AGENT HAS BEEN KIDNAPPED, FIND HIM! YOU KNOW THAT ACTION AND FIGHTING IS INEVITABLE". YOU'LL HAVE TO VISIT THE CITY SLUMS TO FIND HIM AND PROTECT YOU BOTH FROM MOBSTERS, PUNKS AND OTHER RIFF RAFFS.





PURSUIT

AT THE WHEEL OF YOUR FABULOUS FERRARI F40, YOU'RE RACING AGAINST TIME AT 200 MILES PER HOUR. PLAN YOUR ROUTE, BUT BEWARE OF POLICE THAT WILL TRY TO STOP YOU IN YOUR MISSION. 360 DEGREE SPINS, AND REALISTIC 3D ROAD JUNCTIONS WILL MAKE YOU SENSE THE THRILL OF SPEED. DON'T JUST TAKE OUR WORD, BURN SOME RUBBER.

YOUR FIRST ARENA, FULL OF FANS, IS WAITING FOR YOU. STRUGGLE AGAINST ROCKS, WAYES AND OPPONENTS IN A

DEADLY GAME. ONLY FEW CAN LEAVE ALIVE. DO IT OR DIE!!! CRAZY

CARS

YOU ARE RACING FOUR OF THE MOST PRESTIGIOUS CARS IN THE WORLD'S CRAZIEST RACE THROUGHOUT THE UNITED STATES.
PREPARE TO START, READY? GO!!!



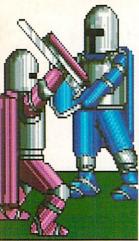
G

FACE THREE LEVELS OF SIX CONFLICTS, FROM SPORADIC WARFARE TO TOTAL WAR. NEVER LOOK BACK! IT COULD BE YOUR LAST MISSION, ONE OR TWO WARRIORS CAN TEAM UP.

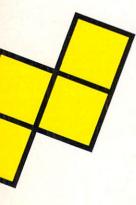
STRATEGIC PUZZLE OF EIGHTY
WORLDS WITH YOUR MAGNETIC
CONTROL UNIT. BUT BE CAREFULL, THE ULTRA-FAST SCROLLING HAS ALREADY CAUSED SOME MENTAL BREAKDOWNS.

© TITUS 1989. TITUS AND THE TITUS LOGO ARE REGISTERED TRADEMARKS OF TITUS SOFTWARE CORP.





,	Autoduel	Origin	\$39.95	Car battles for cash prizes.
	Barbarian II	Psygnosis	\$39.95	Sequel with more monsters, traps.
	Battletech	Infocom	\$49.95	Skill enhancements and tactical combat.
П	Black Cauldron	Sierra On Line	\$39.95	Based upon Disney movie.
	Bride of the Robot	Free Spirit	\$39.95	Adult graphic text adventure.
	Captain Blood	Mindscape	\$49.95	As a half-machine, explore.
	Carthage	Psygnosis	\$34.95	From out of the past.
ì	Chrono-Quest	Psygnosis	\$49.95	Travel through time, solve murder.
3	Clavell's Shogun	Infocom	\$59.95	Players embark to Japan.
	Conquests of Camelot	Sierra On-Line	\$59.95	Search for Holy Grail.
	Cosmic Relief	Datasoft	\$34.95	Help Professor Renegade save the world.
	Deja Vu II: Lost	Icom Simulations	\$49.95	1930-style gangster action.
Š	Dr. Doom's Revenge	Paragon	\$39.95	Comic book superheroes battle.
	Dr. Plummets' House	MicroIllusions	\$34.95	Gravity adventure.
	Dragon's Lair	Visionary Design	\$59.95	Control Dirk, rescue Daphne.
	Dream Zone	Baudville	\$39.95	Travel your dreamscape to exotic locales.
	Dungeon Quest	Image tech	\$49.95	Interactive graphic adventure.
	Faery Tale Adventure	MicroIllusions	\$49.95	Interactive adventure.
	Flash Dragon	Psygnosis	\$34.95	Dragon fighting.
	Galactic Invasion	MicroIllusions	\$14.95	Space battle.
	Gettysburg:Turning Pt.	Strategic Sim.	\$59.95	Re-creation of the Gettysburg battle.
	Gold of the Realm	Magnetic Images	\$39.95	Explore castle in search of hidden treasure.
	Great States II	Designing Minds	\$39.95	Geography game.
	Herachules	Gainstar	\$39.95	3-D role-playing, out-door adventure.
		Sierra On-Line		Adventure.
	Hero's Quest		\$59.95	
	Indiana Jones, Crusade	Luscasfilm	\$49.95	Seek the Holy Grail.
	Infestation	Psygnosis	\$39.95	Get rid of it.
	Jetsons	MicroIllusions	\$39.95	Interactive adventure.
	Journey	Infocom	\$49.95	Enter a world of dwarves, elves, and wizards.
	Killing Game Show	Psygnosis	\$34.95	A little turmoil.
	Kings Quest I	Sierra On Line	\$49.95	Explore the kingdom of Daventry.
	Kings Quest II	Sierra On Line	\$49.95	More fantasy with classical music.
	Kings Quest III	Sierra On Line	\$49.95	Once more, new fantasy adventures.
	Land of the Legends	MicroIllusions	\$49.95	Interactive adventure.
	Leisure Suit Larry	Sierra On-Line	\$39.95	Help Larry through his adventures.
	Leisure Suit II	Sierra On-Line	\$39.95	More mischief with Larry.
	Lost Dutchman Mine	Magnetic Images	\$49.95	Wander the deserts, mountains of Old West.
	Maniac Mansion	Lucasfilm	\$44.95	Rescue a cheerleader from a mad scientist.
	Mindwalker	Commodore	\$49.95	You are a mad scientist with a four-way split.
	Moebius—The Orb	Origin Systems	\$39.95	Fantasy adventure.
	Murder on the Atlantic	Intracorp	\$39.95	Solve a mystery.
	Never Mind	Psygnosis	\$34.95	Checkered field of play.
	Pipe Dream	Lucasfilm	\$39.95	Plummer's worst nightmare.
	Planet of Lust	Free Spirit	\$39.95	Sequel to Sex Vixens from Space.
7	Pocket Rockets.	Capcom U.S.A.	\$39.95	Test-ride four 600cc motorcycles.
	President Is Missing	Cosmi	\$39.95	Find the Chief-Exec.
		First Row	\$39.95	Network direction simulation.
	Prime Time			
	Quest For Excalibur	Infocom	\$49.95	Fulfill your destiny as King Arthur.
	Questron II	Strategic Sim.	\$49.95	Prevent evil.
	Raiders of the Wind	Gainstar	\$39.95	Adventure.
	Romantic Encounters	MicroIllusions	\$24.95	Adult text adventure.
	Savage	Medalist	\$34.95	Heroic fantasy adventure.
	Scary Mutant Space	ReadySoft	\$39.95	Animated fighting sequences.
	Sex Vixens from Space	Free Spirit	\$39.95	Adult graphic text adventure.
	Shadow of the Beast	Psygnosis	\$49.95	Fight monsters, go through traps.
		ReadySoft	\$59.95	Sequel to Dragon's Lair.
	Space Ace			
	Stryx	Psygnosis	\$34.95	Fight robots in Dome City.
	Talespin	Microdeal	\$49.95	Create your own adventure game.
	Tanglewood	Microdeal	\$39.95	Help Uncle Arthur regain mining rights.
	Targhan	Gainstar	\$39.95	Adventure-action, role-playing arcade.



FROM THE CREATORS OF SUPERGEN," THE INDUSTRY STANDARD AMIGA GENLOCK & OVERLAY DEVICE

SuperGen2000 =

THE FIRST TRUE Y/C GENLOCK & OVERLAY CARD FOR THE AMIGA 2000 SERIES COMPUTERS

- ▲ S-VHS, ED-BETA, Hi8 compatible
 ▲ broadcast quality NTSC RS-170A output
 ▲ built-in SC/H phase adjustability
 ▲ built-in sync generator ▲ dissolves
 - \$1595



DIGITAL

CREATIONS

Digital Creations 2865 Sunrise Boulevard Suite 103, Rancho Cordova CA 95742 Telephone 916/344-4825 FAX 916/635-0475

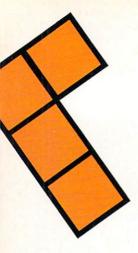
Coming Attractions in 89:

Living Color™System: Frame Buffer, Digitizer, Time Base Corrector, Digital Video Effects (DVE); V Machine,™desk top video workstation

Circle reader response card, see your dealer, or call for more information © 1989 Digital Creations. Amiga is a registered trademark of Commodore Business Machines.

Circle 28 on Reader Service card





The Kristal	Cinemaware	\$49.95	You are a space pirate on an epic quest.
The Last Inca	Free Spirit	\$39.95	Save the Incas.
Time & Magic	Datasoft	\$39.95	Lords of Time, Red Moon, Prince of Magik.
Time Bandit	Microdeal	\$39.95	Three graphic/text adventures.
Times of Lore	Origin	\$39.95	Rival lords battle for control.
Transylvania III	Polarware	\$39.95	Illustrated adventure.
Twilight Zone	First Row	\$39.95	Experience a bizarre storyline.
Twilight's Ransom	Paragon	\$34.95	Get to the bottom of a dissappearance.
Universe 3	Omnitrend	\$49.95	Futuristic who-dunnit, political overtones.
Wanderer	Elite	\$34.95	3-D intergalactic trading game.
Weird Dreams	Medalist	\$39.95	A game within your mind.
Where, USA is C. Sandiego	Broderbund	\$44.95	Geography adventure with Almanac.
Where, World C. Sandiego	Broderbund	\$44.95	Geography adventure with World Almanac.
Zac McKracken	Lucas Film	\$44.95	Become a tabloid journalist.

ROLE-PLAYING ADVENTURE

PRODUCT	COMPANY	PRICE	DESCRIPTION
Alternate Reality	DataSoft	\$39.95	Part I of a classic fantasy adventure.
Bard's Tale	Electronic Arts	\$49.95	Fantasy-bring down the scourge.
Bard's Tale II	Interplay	\$59.95	More scourge-scouring.
Black Tiger	Capcom U.S.A.	\$39.95	Conquer foes and evil dragons.
Code Name: Ice Man	Sierra On-Line	\$59.95	Role playing adventure.
Deathbringer	Cinemaware	\$39.95	Bring down resurrected wizard.
Demon's Winter	Strategic Sims.	\$39.95	Fantasy combined with adventure.
Dungeon Master	Software Heaven	\$39.95	Open doors in an underground world.
Forgotton Worlds	Capcom U.S.A.	\$39.95	Protect the Earth against an alien invasion.
Ghouls and Ghosts	Capcom U.S.A.	\$39.95	Sequel to Ghosts and Goblins—rescue princess.
Hillsfar	Strategic Sims.	\$49.95	Advanced Dungeons and Dragons.
Honeymooners	First Row	\$39.95	Ralph, Ed, Trixie, and Alice.
IntelliType	Electronic Arts	\$19.95	Murder, international intruigue.
J.R.R. Tolkein War	Melbourne House	\$49.99	Follow in the footsteps of Frodo.
Last Duel	Capcom U.S.A.	\$39.95	Pilot a futuristic craft for princess.
LED Storm	Capcom U.S.A.	\$39.95	Futuristic road-race, changing environments.
Might & Magic II	New World	\$59.95	250 animated monsters and auto-mapping.
Neuromancer	Interplay	\$44.95	Role-playing adventure and simulation.
Phantasie II	Strategic Sims.	\$19.98	Locate and destroy Dark Lord's evil orb.
Phantasie III	Strategic Sims.	\$39.95	Final confrontation against the Dark Lord.
Pool of Radiance	Strategic Sims.	\$49.95	Advanced Dungeons and Dragons.
Side Arms	Capcom U.S.A.	\$39.95	Defend Earth from armed aliens.
Speedball	Cinemaware	\$39.95	Futuristic heavy metal blood sport.
Swords of Twilight	Electronic Arts	\$44.95	Travel to other worlds, fight shodowlords.
Twilight Zone, The	First Row	\$39.95	Experience a bizarre storyline.
Ultima III	Origin	\$39.95	A fiery island marks the return of evil.
Ultima IV	Origin	\$59.95	Vanquish evil in this fantasy land.
Ultima V	Origin	\$59.95	Seek the paths of Avatar.



SPORTS

PRODUCT	COMPANY	PRICE	DESCRIPTION	
3-D Pool 4×4 Off Road Racing	Medalist Epyx	\$34.95 \$19.95	Simulation of indoor table game. Down and dirty obstacle course racing.	H

Will he make a bozo out of you?













	Con
	CompuServe Monthly Summary
1:	Item
	-Read messages on 1:00 12 50
•	Play MegaWars III 0:10 2.00
	1200 baud
1	Network surcharge \$.50 .02/quote surcharge non prime
	ge non prime

It doesn't take a computer to figure out the difference.

The difference between the GEnie™ service and CompuServe® could make a big difference to you. Here's why. GEnie's rate for 1200 baud access is just \$6 per non-prime hour.* Theirs is more than twice as much. Which means that with GEnie you can stay online longer for a whole lot less.

And that means more time to enjoy more of GEnie's services. Like valuable computer RoundTables.

Exciting multi-player games. Useful financial information and much more. All at hourly rates designed to allow you to spend more time online. Not more money.

And with GEnie signing up is as easy as one, two, three.

- (1) Set your modem for local echo (half duplex), 300 or 1200 baud.
- (2) Dial 1-800-638-8369. When connected, you just enter HHH.
- (3) At the U#= prompt simply enter

XTX99626,GEnie then RETURN. And have a major credit card or your checking account number ready. For information in the U.S. or Canada, call 1-800-638-9636. Or write GE Information Services, 401 North Washington, Rockville, MD 20850.



We bring good things to life.





MigraIllusions	\$94.05	Auto racing.
		O .
Cinemaware	\$39.95	Create and edit players, original plays.
Cinemaware	\$49.95	Track indviduals and teams.
Moonlight Dev.	\$20.00	Five sites of 16 US opens.
Spectrum Holo.	\$49.95	Race European sports cars.
Bethesda	\$49.95	Create teams, individual players.
Gainstar	\$39.95	Wind-surfing competition.
Thunder Mtn.	\$14.95	Olympic-sports simulation.
Epyx	\$49.95	Six international sporting events.
Access	\$19.95	Harbour Town, Sunningdale, Dorado Beach.
Epyx	\$19.95	Cliff-diving, sumo-wrestling, caber-tossing.
Electronic Arts	\$19.95	Golf simulation—over 20 famous courses.
Melbourne House	\$39.99	Rick Davie's soccer: 512K, 1MB: \$49.99.
Electronic Arts	\$39.95	Miniature golf with unusual field of play.
	Cinemaware Moonlight Dev. Spectrum Holo. Bethesda Gainstar Thunder Mtn. Epyx Access Epyx Electronic Arts Melbourne House	Cinemaware \$39.95 Cinemaware \$49.95 Moonlight Dev. \$20.00 Spectrum Holo. \$49.95 Bethesda \$49.95 Gainstar \$39.95 Thunder Mtn. \$14.95 Epyx \$49.95 Access \$19.95 Epyx \$19.95 Electronic Arts \$19.95 Melbourne House \$39.99

PRICE

COMPANY

DESCRIPTION

STRATEGY

PRODUCT

The state of the s			
Amegas	DigiTek	\$34.95	Bounce, shoot, slam, and juggle.
Android Decision	Datasoft	\$34.95	Two robot cities battle for total control.
Annals of Rome	Datasoft	\$34.95	Based on the rise of the Roman empire.
Balance of Power	Mindscape	\$49.95	Geopolitical simulation.
Battle Chess	Interplay	\$49.95	Chess pieces engage in mortal combat.
Bingo Parlor	Silver	\$19.95	Talking game for up to 10 players.
Blackjack Academy	MicroIllusions	\$24.95	Teaches and plays.
Blackjack & Solitaire	Erisian	\$29.95	Carlos Monte's blackjack and Klondike.
Blitzkrieg	Command Sims.	\$52.95	Battle of the Bulge simulation.
Boomeraid	TSA Media	\$30.50	Define math functions to proceed.
Breach	OmniTrend	\$39.95	Tactical squad combat game.
Breach 2	Omnitrend	\$49.95	More futuristic role-playing combat.
Bridge 5.0	Artworx	\$34.95	Contract bridge, five-card bidding.
Casino Fever	ETHOS	\$39.95	Roulette, blackjack, poker, and craps.
Centerfold Squares	Artworx	\$29.95	Pits you against a centerfold opponent.
Chessmate	Dark Horse	\$29.95	Chess simulation.
Clue Master Detective	Leisure Genius	\$39.00	Computer version of popular board game.
Colossus Chess X	Artworx	\$34.95	Computer opponent learns strategy.
Computer Scrabble	Electronic Arts	\$39.95	Computer version of crossword board game.
Craps Academy	MicroIllusions	\$24.95	Learn and play craps.
Cribbage King/Gin King	Software Tool.	\$59.95	Challenge one of seven personalities.
Crossword Creator	Polyglot	\$49.95	Create crossword puzzles—3-D graphics.
Distant Armies	Eagle Tree	\$44.95	A playing history; historical versions.
Dominoes	Polyglot	\$24.95	Classic board game, sound, 3-D graphics.
Empire	Interstel	\$49.95	Interplanetary imperialism simulation.
Fidelity Chessmaster	Software Tool.	\$49.95	New and improved chess.
Financial Time Machine	First Row	\$39.95	Economics simulation.
Fire Brigaid	Panther Games	\$44.95	War simulation.
Global Commander	Datasoft	\$39.95	Negotiate—maintain world peace.
Gold of the Americas	Strategic Stud.	\$39.95	Command expeditions to Europe.
Golden Pyramid	Micro Entert.	\$19.95	Patterned after Wheel of Fortune.
Gone Fish'n	Interstel	\$44.95	Fishing without bait.
Halls of Montezuma	Strategic Stud.	\$39.95	You are thereIwo Jima, Mexico City.
Hollywood Poker	DigiTek	\$34.95	Strip poker game with digitized opponents.
Ishido	Epyx	\$49.95	Ancient oriental board game.
Jigsaw Puzzlemania	Artworx	\$29.95	Place jigsaw shapes in six puzzles.
Kamfgruppe	Strategic Sim.	\$59.95	WWII tank warfare.
Kikugi	Image tech	\$39.95	Based on a marble-jumping game.



CHOOSE THE RIGHT PATH! INVEST IN THE SUPERBASE SYSTEM



AS EASY TO USE AS A VCR

- Fully multi-file relational power
- VCR style control panel gives easy access to data
- 3 ways of viewing data to cover entry, review and comparison
- Set up and change file definitions quickly using point and click controls
- Define and print multi-file reports with Superbase Query function
- Include images, sound and text as external files within your database record
- Superbase Personal: Multi-file relational power at a flat-file price





POWERFUL FILE MANAGEMENT WITH BUILT-IN TEXT PROCESSING

All the features of Superbase Personal PLUS

- Text Editor for creation of letters and documents; editing options include cut and paste
- Improved data handling facilities including batch entry of data and cross-file lookup
- Keyboard controls for easy editing
- Time field type and additional validation options
- Mail-merge facility for producing personalized letters
- Built-in telecommunications for swift data transfer
- Superbase Personal 2: Full-featured file management at your fingertips

UPGRADE PATH

"... offers more power and sophistication than do most non-programmable databases...

"Personal 2's LOOKUP command. . . gives the program a decided advantage over most of its competitors."

AmigaWorld July '89

\$149-95



THE MOST POWERFUL DATABASE FOR THE AMIGA COMPUTER

- Database management language (DML), Superbase's own 4GL programming language. Over
 250 high-level commands, and other powerful features such as arrays, looping constructs and branching
- Create sophisticated custom programs and applications
- Report generator for ease of set-up and output of reports
- Intelligent Forms Editor enables you to generate multi-file applications without the need for programming
- Automatic transaction processing lets you reproduce standard business forms.
- Extensive programmable telecommunications facilities
- Superbase Professional: World Class programmable database that's easy to learn and use!

UPGRADE PATH

Version 3

\$349-95



SPREADSHEET • BUSINESS GRAPHICS • TIME MANAGEMENT

- Full featured spreadsheet environment that tracks time, resources and money to give a complete picture of your project plans
 - Print wall planning charts, Gantt charts; do critical path analysis
 - Graphics facility to visually portray your data in over 100 different graph styles and options "The program's abilities are limited
 - Sideways printing, full color output to extensive range of printers and plotters
 - Fully programmable, Lotus 1-2-3 and dBase file compatible
 - Works stand alone or with Superbase to provide superb productivity environment

Circle 187 on Reader Service card.

■ Superplan: The Fourth Dimension

SUPERBASE PROFESSIONAL AND SUPERPLAN NOW SUPPORT ARexx

only by your imagination and ingenuity, and you will likely never outgrow Superplan's capacity."

AmigaWorld August '89

\$149 - 95



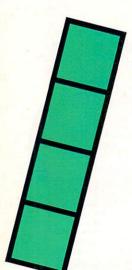
Precision Incorporated 8404 Sterling Street, Suite A Irving, TX 75063 Tel: (214) 929-4888. Fax: (214) 929 1655 Available from your dealer or call Precision Tel: (214) 929-4888

Precision Incorporated acknowledges all trade marks





Life & Death	Software Tool.	\$49.95	Treat patients: diagnosis to operation.
Lightforce	TSA Media	\$39.50	Science knowledge helps you advance.
Lottery Magic	Slipped Disk	\$24.95	Increase your odds with data.
LottoMaster	Gladstone Prod.	\$29.95	Wheeling systems for lotteries.
Monopoly	Leisure Genius	\$39.99	Computer version of the popular game.
Nuclear War	New World	\$49.95	Survive nuclear war and conquer the world.
Obsession	Image Tech	\$29.95	Ancient strategy game.
Omega	Origin	\$49.95	Build the first military cybertank.
Paladin	OmniTrend	\$39.95	Animated combat fantasy.
Poker Solitaire	ETHOS	\$39.95	Play 12 hands of stud poker at once.
Ports of Call	Aegis	\$29.95	Wealth on the high seas—shipping.
Puppy Love	Addison-Wesley	\$29.95	Acquire computer literacy.
Puzzle Buster	Gladstone Prods.	\$39.95	Puzzle-solving help.
Reach for the Stars	Strategic Studs.	\$45.00	Fantastic attempt to rule the galaxy.
Rebel Charge	Strategic Sims.	\$59.95	At Chicamuauga: the South's last offensive.
Red Lightning	Strategic Sims.	\$59.95	Simulation of potential war in central Europe.
Risk	Leisure Genius	\$39.99	Computer version of popular board game.
Roadwar 2000	Strategic Sims.	\$39.95	Fight bacterial warfare in the US.
Roadwar Europa	Strategic Sims.	\$ 9.95	Stop futuristic terrorists.
Rock Challenge	ReadySoft	\$39.95	Rock music trivia.
Scrabble	Leisure Genius	\$39.99	Computer version of popular board game.
Serayachi Campaign	OmniTrend	\$24.95	Combat scenario disk for Breach.
Shanghai	Mediagenic	\$39.95	Strategy board game.
SimCity	Broderbund	\$44.95	City control simulation.
Solitaire Royale	Spectrum Holo.	\$34.95	Eight varieties with three for children.
Sorceror Lord	Datasoft	\$34.95	Stop the advancement of the Shadowlord.
SPOC Collection	SPOC	\$25.00	30 games and puzzles for the A500.
Star Command	Strategic Sims.	\$49.95	Create a force of eight startroopers.
Starfleet I	Interstel	\$54.95	Soar through hyperspace,battle Krellans.
Stellar Conflict	PAR Software	\$39.95	Space-conquest strategy game.
Stellar Crusade	Strategic Sims.	\$54.95	Exploration, economic power, conquest.
Strip Poker II	Artworx	\$39.95	Poker game, two computerized opponents.
Tank Attack	Artworx	\$29.95	Command a tank corps and capture enemy.
Targis	Incognito	\$34.95	Puzzle.
Tech	Gainstar	\$39.95	Surround the enemy and trap them.
TeleEpic	Telegames	\$39.95	The Medieval version with axes and swords.
-	Telegames	\$34.95	Chess checkers and backgammon by modem.
Telegames Telewar II	Telegames	\$39.95	New terrains and enhanced play.
	King Publishing	\$39.95	Crytograms—1000 puzzles or make your own.
The Enigma Device	OmniTrend	\$24.95	16-quests for Paladin.
The Scrolls of Talmouth Their Finest Hour	Lucasfilm	\$59.95	The Battle of Britain: German or British.
	California Drms.	\$39.95	Place objects on a hexagonal field.
TrianGo Video Vegeo	Baudville	\$34.95	Gambling simulation.
Video Vegas		\$52.95	World War II-Eastern front battle simulation.
White Death	Command Sims.		Wheel-of-fortune type game for up to six.
Wordplex	PAR Software	\$39.95	Extra phrases for Wordplex program disk.
WordPlex Data Disks	PAR Software	\$29.95	
World Snooker	Artworx	\$24.95	Pool and billiards simulation.



TEXT ADVENTURE

PRODUCT	COMPANY	PRICE	DESCRIPTION
A Mind Forever Voyaging	Infocom	\$14.95	Mail order only.
Ballyhoo	Infocom	\$14.95	Mail order only.
Beyond Zork	Infocom	\$19.95	Illustrated adventure—mail order only.
Bureaucracy	Infocom	\$19.95	Mail order only.
Crescent Hawk Inception	Infocom	\$49.95	Mail order only.

These are the streets. And there are no rules when you do battle here.

STREETFIGHTER is strictly survival of the fittest against 8 of the baddest dudes from around the world. Watch out for flying scissor kicks, lethal Ninja weapons, and other evil tricks. Block their attacks while you counter with jabs and roundhouse kicks. Don't drop your guard cause these guys aren't just b-b-b-bad. They're "Bad to the Bone."
So see your favorite software retailer or call Capcom U.S.A. 408-727-1665. You don't

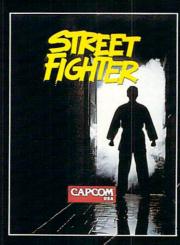
want to keep these guys waiting!



Try a roundhouse kick against an English street tough.



Dodge the lethal Ninja weapons of Geki.



Circle 12 on Reader Service card.





Cutthroats	Infocom	\$14.95	Mail order only.
Deadline	Infocom	\$ 9.95	Mail order only.
Enchanter	Infocom	\$14.95	Mail order only.
Hitchhikers Guide	Infocom	\$14.95	Mail order only.
Hollywood Hijinx	Infocom	\$14.95	Mail order only.
Infidel	Infocom	\$ 9.95	Mail order only.
Lancelot	Datasoft	\$39.95	Interactive King Arthur and knights quest.
Lurking Horror	Infocom	\$14.95	Mail order only.
Moonmist	Infocom	\$39.95	Mail order only.
Plundered Hearts	Infocom	\$14.95	Mail order only.
Scavenger Hunt I:	Aurum	\$49.95	Adventure Through Time; artifact gathering.
Seastalker	Infocom	\$ 9.95	Mail order only.
Sherlock: The Riddle	Infocom	\$34.95	Mail order only.
Starcross	Infocom	\$ 9.95	Mail order only.
Stationfall	Infocom	\$14.95	Mail order only.
Suspect	Infocom	\$14.95	Mail order only.
Suspended	Infocom	\$ 9.95	Mail order only.
Trinity	Infocom	\$14.95	Mail order only.
Wishbringer	Infocom	\$14.95	Mail order only.
Witness	Infocom	\$14.95	Mail order only.
Zork I	Infocom	\$14.95	Mail order only.
Zork Trilogy	Infocom	\$49.96	Zork I II and III, mail order only.

COMPANY LIST

Access Software 545 West 500 South Bountiful, UT 84010 800/824-2549

Accolade 550 S. Winchester Blvd. Suite 200 San Jose, CA 95128 408/296-8400

Actionware Inc. 38 W. 255 Deerpath Rd. Batavia, IL 60510 312/879-8998

Activision 3885 Bohannon Dr. Menlo Park, CA 94025 415/329-0500

Addison-Wesley Jacob Way Reading, MA 01867 617/944-3700

Aegis Development 2115 Pico Blvd. Santa Monica, CA 90405 213/392-9972 American Software Distributors

RR 1 Box 290 Bldg. 30 Urbana, IL 61801 217/643-2050

Antic Publishing 544 Second St. San Francisco, CA 94107 415/957-0886

Arcadia
distributed by Electronic Arts

Artworx 1844 Penfield Rd. Penfield, NY 14526 716/385-6120 800/828-6573

Aurum Software PO Box 5392 Ventura, CA 93003 805/659-3570

Avatar Consulting distributed by Digital Wizards

Baudville 5380 52nd St. SE Grand Rapids, MI 49508 616/698-0888 Bethesda Softworks 15235 Shady Grove Rd. Suite 100 Rockville, MD 20850 301/926-8300

Britannica Software 345 Fourth St. San Francisco, CA 94107 415/546-1866

Broderbund Software Inc. 17 Paul Dr. San Rafael, CA 94903-2101 800/527-6263

Brown Wagh Publishing 16795 Lark Ave. Suite 210 Los Gatos, CA 95030 408/395-3838 800/451-0900

Buena Vista Software 500 S. Buena Vista St. Burbank, CA 91521 818/569-7397 California Dreams

780 Montague Expwy #403 San Jose, CA 95131 408/435-1445

Cinemaware Corp. 4165 Thousand Oaks Blvd. Westlake Village, CA 91362 805/495-6515

Command Simulations Bldg. 3, 297 North St. Hyannis, MA 02601 617/790-1994

Commodore Business Machines 1200 Wilson Dr. West Chester, PA 19380 215/436-4200

Computer Software Services 2150 Executive Dr. Addison, IL 60101 312/620-4444

Cosmi Corp.
431 N. Figueroa St.
Wilmington, CA 90744
213/835-9687
800/843-0537 ►

SANTA CLAUS IS COMING TO TOWN

Better watch out!

After a test ride on Pocket Rockets, the high-speed motorcycle simulation game, Santa picked up a new sleigh that will make this year's rounds faster than ever. And whether you've been naughty or nice, you could win this Suzuki 600 Katana during "Santa's Sleigh Giveaway" in January.

Meanwhile, experience all the thrills and spills of high-speed racing with machines that take you from zero to 60 in under four seconds. Already gaining critical acclaim, Pocket Rockets lets you choose from four of the quickest, most exotic bikes on the planet. The action's as real as the adrenaline you'll feel.

on the planet. The action's as real as the adrenaline you'll feel.

Then, enter "Santa's Sleigh Giveaway" from Capcom U.S.A. Besides the chance to win a new Suzuki motorcycle, you could get a Bell full coverage helmet, or Capcom computer game software. Look to enter in all Capcom computer game packages or visit your favorite computer game retailer for more information. Capcom's belated Christmas giveaway is just around the bend so don't miss out on your chance to win!





LEFT: Try your skill against the clock with a couple of laps around the test track. RIGHT: Drag racing demands a quick wrist and fast shifting. Just don't blow the engine!

Circle 86 on Reader Service card.

POCKET ROCKETS

SWEEPSTAKES RULES How to Enter:

BELL

1. NO PURCHASE NECESSARY. Fill out and mail official entry found in package or you can enter by hand printing your name, address and zip code on a 3" x 5" piece of paper and mailing it to CAPCOM Santa's Sleigh Giveaway, 3303 Scott Blvd., Santa Clara, CA 95054. Enter as other as you wish. Each entry must be mailed separately by JANUARY 15, 1990. No mechanical reproductions of entry will be accepted and all mail-in-entries must be received at the above address by JANUARY 31, 1990. No responsibility is assumed for lost, late, misdirected, or damaged entries.

2. Prize winners will be determined by means of a random drawing to be conducted by an independent judging organization whose decision shall be final. All prizes listed will be awarded, but there can be only one prize winner per household, group or organization. Odds of winning depend on the number of entries received. Approximate grand prize retail value is as follows: Suzuki Katana \$4,495.00. Winners will be notified by mail by FEBRUARY 15, 1999 and may be required to execute affidavits and advertising release. Taxes on prize winnings are solely the responsibility of the winners.

3. Sweepstakes is open to U.S. residents except employees of CAPCOM U.S.A. and their immediate families, its subsidiaries and affiliates, its advertising and promotional agencies, and the judging firm. Prizes won by minors may be awarded to parent or legal guard-ian. Void where prohibited or restricted by Jaw. Alf Federal, State and Local regulations apply. For a list of major prize winners send a stamped, self-addressed envelope to CAPCOM Santa's Sleigh Giveaway Winners List, 3303 Scott Blvd., Santa Clara, CA 95054 by MARCH 31, 1990.





Data Disks distributed by Electronic Arts

Data East USA 470 Needles Dr. San Jose, CA 95112 408/286-7074

DataSoft distributed by Electronic Arts

Demonware distributed by Impulse

Designing Minds, Inc. 3006 N. Main Logan, UT 84321 801/752-2500

Digital Wizards 9307 Carlton Hills Blvd. Santee, CA 92071 619/449-5218

DigiTek Inc. 8910 N. Dale Mabry, Suite 37 Tampa, FL 33614 813/933-8023

Discovery Software International Inc. 163 Conduit St. Annapolis, MD 21401 301/268-9877

Eagle Tree SoftwarePO Box 164
Hopewell, VA 23860
804/452-0623

Electronic Arts 1820 Gateway Dr. San Mateo, CA 94404 415/571-7171

Elite Systems Ltd.
Eastern Ave.
Litchfield
Staffs, England WS13 6RX
0543/414188
US distributor: see Keypunch

Epyx 600 Galveston Dr. Redwood City, CA 94063 415/366-0606 Erisian Software Products 132 Cedar Dunes New Smyrna Beach, FL 32069 904/423-3949

Finally Technologies 1377 Ninth Ave. San Francisco, CA 94122 415/928-5431

First Row Software Publishing 3624 Market St. Philadelphia, PA 19104 215/642-5541

Free Spirit Software Inc. PO Box 128 58 Noble St. Kutztown, PA 19530 215/683-5609

Gainstar distributed by DigiTek

Gladstone7744 Dickening Ave.
Dept. 12
Whittier, CA 90602
619/792-0593

Hard Wired
PO Box 789 Streetsville
Mississauga, Ontario
Canada L5M 2C2
800/387-8192 (US)
416/828-0913

Hewson distributed by Medalist

Icom Simulation 648 S. Wheeling Rd. Wheeling, IL 60090 312/520-4440

Image Tech 9276 Adelphi Rd. Suite 102 Adelphi, MD 20783-2029

Image Works distributed by Cinemaware

Impulse, Inc. 6860 Shingle Creek Pkwy. #110 Minneapolis, MN 55430 612/566-0221 800/328-0184 Infinity Software 1144 65th St., Suite C Emeryville, CA 94608 415/420-1551

Infocom 125 CambridgePark Dr. Cambridge, MA 02140 617/492-6000

Infocom Mail Orders: *Triton Products Co.* Order Center PO Box 8123 San Francisco, CA 94128-9986 800/227-6900

Innerprise 128 Cockeysville Rd. Hunt Valley, MD 21030 301/785-2266

Interplay Productions distributed by Mediagenic

Interstel distributed by Electronic Arts

Intracorp Inc. 14160 SW 139th Court Miami, FL 33186 800/468-7226

ISM Inc. PO Box 247 Phoenix, MD 21131 301/666-2672

Jumpdisk 1493 Mountain View Ave. Chico, CA 95926 916/343-7658

Keypunch Software 1221 Pioneer Building St. Paul, MN 55101 612/292-1490

King Publishing 921 32nd St. Sioux City, IA 51105 712/252-4604

Kingsoft distributed by Impulse

Konami Inc. 815 Mittel Dr. Wood Dale, IL 60191 312/595-1443 Leisure Genius distributed by Virgin Mastertronic

Logotron distributed by Britannica Software

Lucasfilm distributed by Electronic Arts

Magnetic Images Company PO Box 17422 Phoenix, AZ 85011 602/265-7849

Mandarin Software distributed by Top Ten

Mark of the Unicorn 222 Third St. Cambridge, MA 02142 617/576-2760

Mastertronic International, Inc. 711 West 17th St. Unit G9 Costa Mesa, CA 92627 714/631-1001

Maxis Software Inc. 953 Mt. View Dr. Suite #113 LaFayette, CA 94549 415/376-6434

Medalist International 180 Lakefront Dr. Hunt Valley, MD 21030 412/838-1166

Mediagenic 3885 Bohannon Dr. Menlo Park, CA 94025 415/329-0800

Melbourne House distributed by Virgin Mastertronic

Mercury PO Box 83 Wilton, CT 06897

MichTron 576 S. Telegraph Pontiac, MI 48053 313/334-5700 ► "Pen Pal is clearly the first of the next generation of graphic wordprocessors...Save your money folks (and it won't take as much as you might think), Pen Pal is going to be required software for your Amiga."

Tom Malcom; INFO Magazine

"Only had **Pen Pal** 3 hours and it's super!"

"Best I've ever seen for any machine."

"Meets all my needs in one package."

"More fun than most games."

"Switched from Excellence!"

"The one we've been waiting for."

"Wheee!"

Direct quotes from Pen Pal registration cards

Just another word processor?

THINK AGAIN. Pen Pal is unlike any other. The printing and graphics are extraordinary. The value, exceptional.

Just look at these samples from various printers. The text and graphics are blended

beautifully – words wrapped around pictures - pictures printed in original colors and resolutions - lines, boxes, shadows and borders added for emphasis graphics mixed with Requires Amiga 500, 1000, 2000 or letter quality fonts.



2500 with 1 Meg RAM and 1 disk drive.

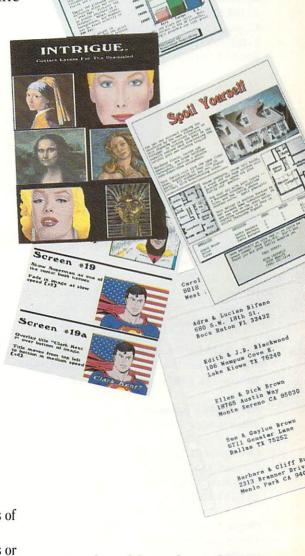
WANT MORE FOR YOUR

MONEY? Pen Pal manages all kinds of lists with names, addresses, dates and amounts. Printing reports, form letters or mailing labels couldn't be easier. Different size forms for invoices and phone messages can be designed and filled in, field by field.

The reviews and registration cards sum it up. Word processing, simple pagelayout, database management, and forms fill-in have been combined into one easyto-use, yet powerful program.

This is a steal. Grab it fast.

Pen Pal - Only \$149."



Developed by Softwood Company



(408) 395-3838 (in CA) (800) 451-0900



Microdeal
distributed by MichTron

Micro Entertainment 14 Wisteria Way South Portland, ME 04106 207/767-2664 800/255-5217

MicroIllusions 17408 Chatsworth St. Granada Hills, CA 91344 818/360-3715 800/522-2041

MicroSearch Inc. 9896 SW Freeways Houston, TX 77074 713/988-2818

Mindscape 3444 Dundee Rd. Northbrook, IL 60062 312/480-7667 800/221-9884

Mindware International 33 Aliance Blvd. Unit 1, Box 22158 Barrie, Ontario Canada L4M 5R3 705/737-5998

Moonlight Development 329 Shoreline Place Decatur, IL 62521

New World Computing distributed by Electronic Arts

Omnitrend Software Inc. PO Box 733 West Simsbury, CT 06092 203/658-6917

Origin Systems 136 Harvey Rd. Building B Londonderry, NH 03053 603/644-3360

Panther Games
PO Box 8 Hughes
ACT 2605
Australia
61 62 81 5150
US distributor: Computer
Software Service

PAR Software Inc. distributed by Brown Wagh

Paragon Software distributed by Medalist

Polarware Software 1055 Paramount Parkway Suite A Batavia, IL 60510 312/232-1984

Polyglot Software 10431 Ardyce Ct. Boise, ID 83704 208/375-3741

Psygnosis Ltd. distributed by Computer Software Services 2150 Executive Dr. Addison, IL 60101 800/669-4912

ReadySoft
PO Box 1222
Lewiston, NY 14092
416/731-4175

Reline Software distributed by Constellation

Scorpion 19 Harbor Dr. Lake Hopatcong, NJ 07849 201/663-0202

Sega Software distributed by Mindscape

Sierra On-Line Inc. P.O. Box 485 Coarsegold, CA 93614 209/683-4468

Signs Etc. By D. Knox PO Box 628 Carmichael, CA 95609-0628 916/944-0790 800/634-2952

Silver Software 77 Mead St. Bridgeport, CT 06610 203/366-7775

Slipped Disk 31044 John R Madison Heights, MI 48071 313/583-9803 Snake Design Software distributed by American Software

Software Heaven 6160 Lusk Blvd. Suite C-206 San Diego, CA 92121 619/453-5711

Software Toolworks distributed by Electronic Arts

Special Programs

© Operations Company
Box 299
Kiowa, OK 74553
918/432-5774

Spectrum Holobyte 2061 Challenger Dr. Alameda, CA 94501 415/522-3584

Spinnaker Software 1 Kendall Sq. Cambridge, MA 02139 617/494-1200

SportTime 3187-G Airway Ave. Costa Mesa, CA 92626 714/966-1311

Strategic Simulations distributed by Electronic Arts

Strategic Studies distributed by Electronic Arts

subLOGIC Corp. 713 Edgebrook Dr. Champaign, IL 61820 217/359-8482

System 3 Software
Blenheim House
1 Ash Hill Dr.
Pinner, Middlesex HA5 2AG
01/866-5692

Taito Software Inc. 267 West Esplanade North Vancouver, B.C. Canada V7M 1A5 604/984-3344 **Telegames**Box 123225
Fort Worth, TX 76121
817/244-4150

Terrific Software 544 Second St. San Francisco, GA 94107 415/957-0886

Three-Sixty Inc. 2105 S Bascom Ave., Suite 290 Campbell, CA 95008 408/879-9144

Thunder Mountain distributed by Mindscape

Titus Software Corp. 20432 Corisco St. Chatsworth, CA 91311 818/709-3692

Top Ten Software PO Box 1450 Oakhurst, CA 93644 209/683-7577

TSA Media Claremont 6010 Western Australia 09/384-3047 US distributor: American Software

Ultra Software distributed by Konami

US Gold distributed by Epyx

Virgin Mastertronic 18001 Cowan St. Irvine, CA 92714 714/833-8710

Visionary Designs 15235 Shady Grove Rd. Suite 100 Rockville, MD 20850 301/926-8300

Walt Disney Software 2600 W. Olive Ave. Burbank, CA 91505 818/972-3440 ■

TRUMPCARD

LONG ON PERFORMANCE

SHORT ON COST

All Trumpcard products now autoboot directly to FFS and support SyQuest removable media at NO EXTRA CHARGE!



- · Premium 500HD series drive systems are assembled, tested, and formatted with WB1.3 by IVS.
- Standard Trumpcard 500 includes enclosure and Trumpcard SCSI disk controller.
- · High quality, ergonomically designed, color matched aluminum enclosure houses all electronics and 3.5" SCSI drive!
- Extra slot for addition of optional 2 Mbyte Ram card.
- · No cost A2000 upgrade! Trumpcard, RAM, and drive are A2000 compatible.
- Sloping face of chassis eliminates keyboard interference.
- Cards and drive run from A500 bus power or optional IVS SOURCER, a premium quality 40 watt switching supply.

TRUMPCARD (above)

- User customizable driver supports over 20 devices.
- Transfer rates measured over 400 Kbytes/sec.
- · Exclusive IVS checklist software makes configuration a breeze.
- · IVS Smartboot autoboots all drives from cold start.
- · List price \$199.95.





TRUMPCARD HARD DISK CARD (left)

- · Premium HC series includes Quantum drives assembled, tested and formatted with WB1.3 by IVS.
- · Supports all Quantum, Seagate, Miniscribe, Conner, and Maxtor 3.5" drives.
- · Identical speed as DMA to Buffer type controllers costing hundreds more!

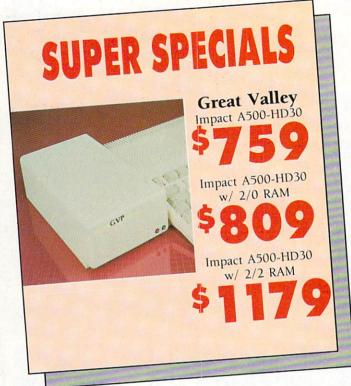
All IVS Trumpcard products are available with drives pretested and formatted by IVS. Ask for Trumpcard HC series 2000 cards or Trumpcard 500HD series for A500.



INTERACTIVE VIDEO SYSTEMS

11612 KNOTT AVENUE • SUITE 13 • GARDEN GROVE, CA 92641 • (714) 890-7040

Amiga Specials Everyday



DISK DRIVES

Supra	
20MB Ext. (A500)	\$559
20MB Ext. (A1000)	659
60MB Ext. (A500)	879
60MB Ext. (A1000)	1029
30MB Int. (A2000)	569
45MB Int. (A2000)	659
80MB Int. (A2000)	1159
Miniscribe	
20MB Int. 31/2" 40MS	259
20MB Int. 31/2" 65MS	239
C. Ltd.	
33MB Ext. (A500)	729
33MB Ext. (A1000)	769
44MB Ext. (A500)	799
44MB Ext. (A1000)	879
65MB Ext. (A500)	899
65MB Ext. (A1000)	939
33MB Int. (A2000)	659
44MB Int. (A2000)	1079
60MB Int. (A2000)	979
Great Valley	
Impact A2000-2/0	289

Impact A2000-2/2	\$729
Impact A2000-HC/40Q	799
Impact A2000-HC/80Q	1199
Impact A500-2/2	499
Impact A500-HD20M	709
Impact A500-HD40Q	989
Call For Configuration	ns
Ni I i II	



MIMETICS Amigen Genlock \$139

Meg	atronics			
31/2"	Internal	Air	Drive	
31/2"	External	Air	Drive	

DRINTERS

Alps	
Allegro 24 24-Pin Flatbed	\$319
Brother	
M-1109 100cps Dot Matrix	179
M-1709 240cps, 132 Color	369
Canon	
Canon BubbleJet 130	799
C.Ltd.	
Laser Xpress	2199
Epson	
LX-810 200cps, 80 Col.	179
FX-850 264cps, 80 Col.	339
FX-1050 264cps, 136 Col.	Call
LQ510 180cps, 24-Wire	339
LQ-850 330cps, 24-Wire	Call
Hewlett Packard	
ThinkJet 2225	329
Okidata	
Okimate 20 Color	139
ML-172 180cps, 80 Col.	199
ML-182 Turbo 220cps	239
ML-320 300cps, 80 Col.	359
Panasonic	
KX-P1180 192cps, 80 Col.	185
KX-P1191 280cps, 80 Col.	239
KX-P1124 192cps, 24-Wire	339
Star Micronics	
NR-1000 Rainbow Color	229

AUDIO/VIDEO

AGDIO/ VIDEO	
A-Squared	
Live-A1000	\$229
Live-A500	299
Live-A2000	329
Anakin Research	
Easyl Draw A1000	349
Easyl Draw A500	349
Easyl Draw A2000	389
Digital Creations	
SuperGen Genlock	685
Magni	
4000 Genlock w/Remote	
Control	1839
Mimetics	
Midi (A1000)	42
Midi (A500/2000)	42
Microway	
Flicker Fixer	479
Progressive Peripherals	
Pro-Gen Genlock	359
Frame Grabber	519
Sunrize Industries	
Perfect Vision	199

AUDIO/VIDEO

Electric Color Splitter	\$ 89
Perfect Sound	69
Image Scan	129
Summa	
APRO Draw w/Cursor	499
MODEMS	
Anchor	
1200 Baud External	\$ 99
2400 Baud External	159
Hayes	
Smartmodem 300	149
Smartmodem 1200	279
Smartmodem 2400	419

Super Buy

85

145

119

Practical Peripherals 1200 Baud External

2400 Baud Internal

SJ2400 External

Supra



SUPRA 2400 zi Int/2000 5139

BOARDS

Creative Microsystem	S
Processor Accelerator	8
A500/A2000	\$175
A1000	189
Microbotics	
Starboard II	Call
Upperdeck	45
8 Up (A2000)	179
Hard Frame	249
Spirit Technology	
1.5MB w/OK (A1000)	239
1.5M w/OK (A500)	239
Supra	
8MB Board w/2mg	519





119 145



Call 1-800-233-8950!

MONITORS

49
59
99
99
39

SOFTWARE

Accolade		
J. Nicholas Golf	\$	3
Test Drive II		2
Grand Prix Circuit		3
Action Ware		
P.O.W.		2
Prison		2
Creature		2
Aegis		
Draw 2000]	15
Lights, Camera, Action		4
Videoscape 3D	1	11
Video Titler		9
ANImagic		6
Broderbund		
Where in The World		2
Fantavision		3
Sim City		3

Hot Special



SEDONA Money Mentor

Byte by Byte	
Animate 3D	105
Sculpt 3D	75
Sculpt 3D Excel	109
Sculpt/Animate 4D	429
Sculpt/Animate 4D Jr.	95
Centaur Software	
BAD	33

SOFTWARE

Contriver		
M4 Replacement Mouse	\$ 4	(
C.Ltd.		
Jet Master	5	(
Cinemaware		
Lords of The Rising Sun	3	
Rocket Ranger	3	
Three Stooges	3	
TV Sports	3	
Krystal	3	
Digitek		
Hole-in-One	2	
Hole-in-One Courses	1	4
Discovery		
Marauder II	2	4
Sword of Sodan	3	



MICRO SYSTEMS The Works! Platinum \$175

Electronic Arts	
Master Ninja	21
Zany Golf	27
Deluxe Paint III	99
Epyx	
California Games	28
Battleship	21
Technocop	33
Gold Disk	
Design 3D	66
Desktop Budget	48
Movie Setter	64
Professional Page 1.2	219
Incognito	
Kings of England	30
Melbourne House	
War in Middle Earth	32
MicroDeal	
AMAS (A500/2000)	64

CMO Super Savings Special PANASONIC KX-P1124

192 cps, 24-Wire

1 10	6.20	GI O	
International Soccer	\$ 28	Chrono Quest	\$ 34
Tetra Quest	27	Captain Fizz	25
Zero Gravity	19	Readysoft	
Micro Systems		AMAX	129
Scribble! Platinum	92	Cosmic Bouncer	21
Excellence	179	Spotlight	
On-Line! Platinum	62	Deathbringer	26
Micro Illusions		Speedball	26
Music-X	199	Total Eclipse	26
Mindscape		Spectrum Holobyte	
Balance of Power 1990	32	Tetris	23
Hostage	29	Falcon	29
Psygnosis		TopTen	
Baal	19	Lombard Rally	27
Ballistix	22	WordPerfect	
Fire Brigade	33	WordPerfect	135
		WordPerfect Library	79

Your Source for Hardware, Software & Peripherals In U.S.A.

800-233-8950

In Canada call: 800-233-8949 All Other Areas call: 717-327-9575 Fax call: 717-327-1217 Educational, Governmental and Corporate Organizations Call toll-free: 1-800-221-4283

CMO, 101 Reighard Ave., Dept. B9, Williamsport, PA 17701

Over 400,000 SATISFIED CUSTOMERS • MAJOR CREDIT CARDS ACCEPTED

POLICY: Add 3% (minimum \$7.00) shipping and handling. Lurger shipments may require additional charges. Personal and company checks require 3 weeks to clear. For faster delivery, use your credit card or send cashier's check or bank money order. Credit cards are not charged with the chief. Personal description of the property of the company of the com



or bank money order. Credit cards are not enaged until we ship. Pennsylvania and Maryland residents add appropriate sales tax. All prices are U.S.A. prices and are subject to change. All items are subject to availability. Defective software will be replaced with the same item only. Hardware will be replaced or repaired at our discretion within the terms and limits of the manufacturer's warranty. We cannot guarantee compatibility. All sales are final and returned shipments are subject to a restocking fee. We are not responsible for typographic or photographic errors.







Pick a Path



If 512K cramps your Amiga 500's style, follow our upgrade map to a multi-meg paradise.

By Louis R. Wallace

THE STRAIGHT AND narrow is not always the best road to take—especially for upgrading your Amiga 500's memory. When you feel the pinch of a 512K system heavily multitasking or trying to load a one-meg-plus animation or program, the easiest solution is to buy the cheapest memory expansion you can find. While a quick, straightforward solution, it may limit how you can further upgrade your system.

A500s, although lacking the slots of the Amiga 2000, are surprisingly flexible to expand. You can add memory on two buses, internally, or in combination with a hard drive. As expansion memory is transparent (it changes system behavior only by adding more space for programs to operate), your prime considerations when shopping are not speed and performance but future expansion plans and power consumption (the A500 has a notoriously minimal power supply). Above all, be sure the device you choose conforms to the auto-config standard (all devices mentioned in this article do) that lets the Amiga detect the device automatically on boot up and install it in the memory map—no installation routines are needed.

The first step is to buy an internal 512K RAM cartridge to bring your A500 up to one megabyte. The module plugs onto the bus in the recessed area under the machine. In addition to Commodore's A501, several models are available. (See the accompanying chart for details.)

HOP ON THE BUS

The easiest path to a multi-meg system is through the 86-pin bus on the left side of the A500. With the computer turned off, you simply snap a cartridge or small box on to the bus connector. The extra RAM is instantly available when you turn on the computer.

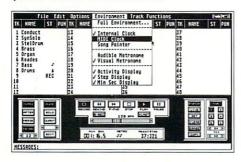
An excellent example of such a device is the tiny **Mini-Megs** cartridge from M.A.S.T. You can purchase it populated with 512K (\$223), one (\$299), or two (\$449) megs of RAM. If you buy Mini-Megs with less than two megabytes, you can later send it to M.A.S.T. ▶

Standards "A level of excellence used to determine quality." The standards of the standar

As an Amiga owner you've invested in a machine that has set the highest standards of excellence for all facets of creative computer applications. You have patiently waited for music software that lives up to those standards. Now, at last that level of achievement has been reached.

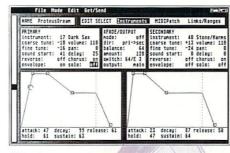
	File Edit INSTRUMENT					GROUP		y Utilities (GM)* CORMENTS
10				PAFO	HULL	C.C.C.		
2	PROTEUS		DREAM					SPACEY DREAM
7	EMAX2		E-Bass					FAT ALBERT BASS
4	KURZVEIL		STEINWAY					CREAT PIAND SAMPLE
5	0-110	10	DRUMS					CATED SET 1
6	D-118	A	SENSITIU					SYNTH SOLO WITH MOD
7	*RECORD*							
8								
9								
18		-						
11		-						
17				_				
13		-		_				
44.		_		_	_		-	
ī,	. I FATT		6	-	10		7	GROUP CUE
_	EULI		L u	-				THE UKUUP CUE
				174	MINIS			Peer 1100 (W. 050) (J. 15
E			1	222	03:	6	1:	1:128 X-REC 1
1	WITTER BECOMM					J = 128		THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS N
4	J > 16 }			-		4 = 128		Cit (15)
J				4100	1270	0.0	12.7	Co Company

Dr. T's growing catalog of over 23 Amiga titles for both professionals and amateurs include: TIGER Cub and T.I.G.E.R. interactive sequencing and graphic editing programs; the Level II and KCS sequencers; Copyist Apprentice and Professional scoring and transcription programs; Caged Artist editor/librarians; the Model-A MIDI interface; and others. They give you all you've waited for...and more!





Features such as the exclusive Velocity Stems in TIGER and TIGER Cub, the Level II "Algorithmic Editing", the incomparable music printing of Copyist, or the acclaimed Mouse-Play function in the Caged Artist editors all make Dr. T's the products of choice of serious Amiga musicians. And if you take the accuracy of your sequencer seriously, how about rock-steady timing at a resolution of 240 Pulses Per Quarter Note! We've solved problems other companies are still struggling with.



Whether you play music for fun, or music is your life, we have the music software tools that will help you make music faster and easier than you ever dreamed. Try us and see why thousands of Amiga users chose Dr.T's for their software. Call or write for our free catalog, or send \$5 for a Demo disk.



Products:

SEQUENCERS

LEVEL II KCS V1.7 TIGER Cub MRS V1.1

EDITOR/LIBRARIANS

CASIO VZ-1 VZ-RIDER
CZ RIDER
DX HEAVEN
EMU Proteus
ESQ'apade ESQ-1 SQ-80
4-OP DELUXE (Yahama)
KAWAI K-1
KAWAI K-5
KORG M-1
LEXICON PCM-70
OBERHEIM MATRIX 6/1000
ROLAND D-110
ROLAND D-50
ROLAND MT-32
X-OR (UNIVERSAL EDITOR)

COMPOSITION/ SCORING

COPYIST APPRENTICE COPYIST PROFESSIONAL TIGER (GRAPHIC EDITOR)

MISCELLANEOUS MODEL-A MIDI INTERFACE

Music Software of the Year, 1988

Commodore Magazine

"Our hands-down favorite new piece of software, TIGER...is a music composition program whose elegance is simply stunning. Finally, a program that bridges the gap between cold, hard technology and the creative musician."

"The most powerful and dependable of MIDI sequencers for the Amiga is KCS..."

Amiga World

Keyboard Magazine

"(Copyist is) A composer's delight that provides score editing, file conversion capability, and custom printing all in one package."

Amiga World

"(MRS)...compared to other sequencers, it is a great value." Amigo Times

"...(Level II) is a powerful collection of MIDI recording and editing tools that works well, is responsive, and is designed with the high-end user in mind."

Amiga SENTRY

220 Boylston Street Suite 206 Chestnut Hill, MA 02167

> U.S.A. (617) 244-6954 FAX (617) 244-5243

for additional RAM. If you do not mind voiding your Mini-Megs warranty and feel technically confident, you can open the case and install the chips yourself. Mini-Megs' major limitation is that it does not have a pass-through port (i.e., a second port that accepts another expansion device and passes information between it and the computer). On the plus side, not expanding any further means the A500 has ample power for both the computer and the Mini-Megs cartridge. If you want only extra memory, then this limitation is not a problem. If you plan on someday expanding your system even more with a hard drive or specialized devices, Mini-Megs is not for you.

A more versatile bus upgrade is the **StarBoard-2/500** from Microbotics. Larger than Mini-Megs, the StarBoard-2/500 also snaps onto your expansion bus and is socketed for one megabyte of memory. You can purchase it unpopulated (\$339) and install the chips yourself, or buy it complete with one megabyte of memory (\$489.40). To keep strain off the A500's power supply, it comes with its own. The StarBoard also provides a pass-through bus expander.

The StarBoard-2/500 offers a more comprehensive upgrade path than just mere memory expansion. You can open your StarBoard-2/500 and install yet another megabyte of RAM or a multifunction board (\$90) with a clock, parity-checked memory, an optional Motorola 68881 floating-point coprocessor, and a StickyDisk recoverable RAM disk, which retains its contents during a warm boot. More important is the StarDrive SCSI Module (\$129.95), a SCSI harddrive interface. With this option you can later add a standard SCSI hard-drive without having to scrap the investment already made in the StarBoard-2/500. Like all Microbotics hardware, the StarBoard-2/500 is a well-designed, well-supported product, and a good intermediate step between a standard system and a multi-meg, hard-drive system.

MASS TRANSIT

If you know from the start you want expansion RAM and a hard drive, you should consider my favorite method of expansion—the all-in-one solution. Several companies have combined a hard-drive chassis and a memory-expansion cartridge into one easily installed product. After installing the hard drive, you

just open its case and pop the RAM card in the slot. The accompanying power supply eases the load on the A500's original one.

A good choice is the **Impact A500-HD/XX** hard drive chassis from Great Valley Products. This small box quickly connects to the Amiga 500's bus and can contain from a 20MB (\$650, including unpopulated RAM card) to an 80MB (\$1429, including unpopulated RAM card) autobooting SCSI hard drive. For RAM expansion it has a slot for an optional two-megabyte RAM card (\$550 populated). Should you need help setting up the system, GVP has an excellent record of customer support.

If you prefer the security of an all-Commodore system, check out the **A590** hard disk and RAM expansion chassis (\$999). Pop it on the expansion bus and you add a 20MB hard disk and up to two megs of RAM.

Pacific Peripherals' **Synergy 500** hard disk and memory expansion system offers from a two megabyte RAM board (\$149 unpopulated; \$449 fully populated) and a hard disk ranging from 20MB (\$599) to 60MB (\$749). The drive is tethered to the bus expansion cartridge by a five-foot ribbon cable that gives you plenty of flexibility in positioning the drive on your desk.

Supra Corporation also designed its expansion in a two-piece system. The **SupraDrive SCSI Interface** (\$199) hooks to the bus, contains up to two megabytes of memory (\$549), and connects to any SCSI hard drive. (Supra sells from 20MB drives (\$599) to 250MB custom-built drives.) Supra recently reaffirmed its commitment to product support by upgrading the performance of their hard drives and controllers.

A new entry in the RAM expansion market, Xetec now offers RAM boards for its A500 Fasttrak expansion chassis. Connected to the bus via a small host adapter (with a pass-through for other bus devices), the Fasttrak is an expansion chassis that contains an autobooting SCSI hard-disk controller (\$399.95 alone), hard drive (complete systems from 20MB to 80MB for \$699.95 to \$1499.95), and RAM expansion slots. Xetec RAM boards can come configured with 512K (\$99.95) to a full eight megabytes (price market dependent) of RAM.

THE SUBWAY

If you do not mind some extra work and risk, you can install a memory board inside your computer. The A500 was not designed for internal expansion, but at least two companies (Spirit Technology and Progressive Peripherals & Software) have successfully engineered internally mounted piggyback RAM boards that install on top of the motherboard.

To install either board, open your Amiga 500's case (thereby voiding your Commodore warranty), then remove the top, the keyboard, and the metal shield that covers the motherboard. The next phase is the most dangerous and delicate: Remove your 68000

Internal	512K	Upgrades
		~ ~ ~ ~ ~ ~ ~

0K Clock/Calendar	Skyles	\$ 49.95
0K RAM/Clock	C Ltd	40.00
512K Clock/Calendar	Datel	129.95
512K Clock/Calendar	Skyles	139.95
512K RAM	Supra Corp.	149.00
A501	Commodore	199.95
EXP-512	Progressive	169.95
MicroMegs	M.A.S.T.	105.00

M.A.S.T.

MEMORY AND STORAGE TECHNOLOGY

" The Matchbox Collection "

A Powerhouse of Peripherals For Your Amiga

EASY ST. - LET MAST GUIDE YOU THRU THE AMIGA PERIPHERAL MAZE

\$169

AMIG-a-TOSH

AMIGAa-TOSH is the MAST Macintosh compatible floppy drive fully compatible with the A-MAX Mac emulator. MAST also sells this drive to Macintosh owners and guarantees its performance with A-MAX.

- SUPERSLIMLINE
- · QUALITY FUJITSU DRIVE
- AUTO-EJECT
- LOW PROFILE
- ONE YEAR WARRANTY

AMIG-a-TOSH PLUS

AMIG-aTOSH PLUS is the ultimate solution for A-MAX owners. It includes a Macintosh compatible floppy drive and hardware allowing the AMIG-a-TOSH PLUS to read Apple ROM's. Now

you can discard the A-MAX hardware module, and have your entire Mac emulator housed in a superslimline case.



\$249

FLICK-OFF

A500 -A1000 -A2000

ELIMINATE INTERLACE **FLICKER**

DTP? CAD? HI-RES GRAPHICS

FLICK-OFF LETS YOU **EXPLORE THE POSSIBILITIES**

Simple to install

MAST USA:

- Requires multisync monitor
- Eliminates flicker on all interlace modes including HAM
- Several software options
 - \$399

1395 Greg St. #106, Sparks, NV 89431 Tel: (702) 359-0444 MAST AUSTRALIA:

Buckland House

19-21 Buckland St., BROADWAY NSW 2007 Tel (02) 281 7411 FAX (02) 281 7414

MAST UNITED KINGDOM:

Unit1, Dippen, Brodick, Arran SCOTLAND KA278RN Tel (077082) 212 FAX (077082) 234

All prices subject to change without notice Please call for freight costs. CA residents add Mac, Apple, Macintosh are trademarks of Apple Computer. Amiga, A500, A1000, A2000 are trademarks of commodore-amiga A-Max is a trademark of readysoft. Drive names mentioned in the special offer are trademarks of their respective companies

MICROMEGS

ULTRA LOW POWER A501 ALTERNATIVE

· BATTERY BACKED CLOCK

•512K RAM HIGH SPEED **LOW POWER** ONE MEG DRAM's

MINIMEGS UPGRADE FACTORY OFFER \$89 EACH 512K

MINIMEGS

2 MEGABYTE EXTERNAL RAM

- Additional to any memory currently in your system.
- Autoconfigure
- Fast RAM Low Power Ram Tachometer
- Autoconfigure LED Pocket Size
- Zero wait states
- Compatible with A501 Easily installed external

A500

One Meg \$399 Two Meg \$599 A1000

One Meg \$439 Two Meg \$624

THE INFINITY MACHINE

- Q. DO YOU WANT THE FASTEST AUTOBOOTING, DMA, SCSI INTERFACE AVAILABLE?
- A. NO PROBLEM- it's included with the basic module of The Infinity Machine.
- Q. NEED LOTS OF MEMORY?
- A. Infinity accepts up to 8 megabytes of RAM. The memory can be selected as either 16 or 32 bit memory. It can be used with both the 68000 and 68030. The PICOMEGS memory can run in interleaved mode in most configurations for even faster access.

SCSI **VESNA** ? 68030 BORIS **PICOMEGS**

A500 AND A1000 \$299 base module

Q. NEED SPEED?

NEW DESIGN

OPTIONAL

WARRANTY

ON QUALITY

from

2 YEAR

- A. NO PROBLEM- you have the choice of a 68000 running at 7 OR 16 MHz in the PICOMEGS address space or a 68030 running at 16,20,25,33,50 MHz.
- Q. WHAT ABOUT A2000 OWNERS?

TINY TIGER II

MASSIVE MASS STORAGE

30/50/90/136/182 Megabytes

FUJITSU 90,136,180 meg drives.

This quality unit has been designed to plug into any Amiga

SCSI INTERFACE including THE INFINITY MACHINE, the MAST PARALLEL SCSI INTERFACE (when you want a

fast system that is portable between different Amigas), or as

a second drive plugged into the additional connector on the

IREBALL A2000 interface. Tiny Tiger feature a front panel

SCSI address display, auto power-on with computer, switch

\$599

selectable SCSI and pass thru. GREAT VALUE

TINY TIGER

A. In December you will be able to have a machine as fast as an A500 or A1000 fitted with INFINITY.

FIREBALL

A2000 SCSI INTERFACE

TRUE DMA .AUTOBOOT VERY FAST · LOW COST

FIREBALL \$229 (controller only) FIREBALL 30meg \$609 FIREBALL 90meg \$1209

FIREBALL 136meg \$1509 FIREBALL 182meg \$1759

The above units include a drive mounted on the controller card. Additional drives can be purchased separately - 90meg \$1039, 136meg \$1309, 182meg - \$1550. These drive are high performance, with similar characteristics to the Quantum drives. They also have embedded

PARALLEL SCSI ADAPTOR \$129

- · Quality Fujitsu Drive Mechanism
- Superslimline Design 5" x 7.5" x 1.2"
- · No click when the diskette is removed
- · May be switch disabled
- · Low Power- 2.4 watts operating 0.03 watts standby
- · Limited one year warranty

TWINDRIVE

- · Two quality Fujitsu drives in a slimline case.
- · No clicking. Each drive may be
- switch disabled
- Quiet operation Limited one year warranty.
- May be powered from the Amiga or from optional 9V DC plugpak.



A2000 INTERNAL \$109 DRIVE

Circle 181 on Reader Service card.

UNIDRIVE

THE ORIGINAL AND BEST

\$149

M.A.S.T.

- Fully Compatible
- Quality Fujitsu Mechanism
- · Superslimline
- No Clicking
- May be switch disabled
 1 year limited warranty
- · Very low power.



TWINDRIVE

MAY BE UPGRADED TO A

SPECIAL OFFER

ONLY AVAILABLE THRU THE FACTORY NOT VALID WITH ANY OTHER OFFER Trade in your OLD 1010 for a NEW

- ENHANCED UNIDRIVE \$105
- Upgrade your current UNIDRIVE to an ENHANCED UNIDRIVE for \$29-95
- 3. If you own an AIRDRIVE, PRODRIVE, CENTAUR SILENT DRIVE. CALIFORNIA ACCESS or MASTER 3Ahave it upgraded to all the FEATURES of the ENHANCED UNIDRIVE 39-95

ENHANCED UNIDRIVE

FEATURES:

- LED TRACK DISPLAY
- READ/ WRITE INDICATOR
- BUILT-IN VIRUS DETERRANT
- \$179
- indicates when track 00 written to selective write protect of track 00 hardware write protect of drive
- PASS THRU

CPU chip from the motherboard and carefully install it in the waiting socket on the piggyback board. Finally, insert the pins on the bottom of the piggyback board back into the now empty CPU socket on the motherboard. Be very careful to not bend any pins. When you reassemble your Amiga and power up, you will have the additional memory. If you are not comfortable with a screwdriver or leary about dismantling your computer, let an authorized Amiga service center perform the upgrade for you.

I installed a fully-populated, two-meg SIN-500-2 board (Spirit Technology, \$623; unpopulated \$263) in about one hour. Each step is described clearly in the small manual. The only problem I had was that I inadvertently bent a few pins on the CPU while I was installing it in the piggyback board. Luckily, I was able to straighten them using needle-nose pliers. On power up I had two additional megs of autoconfig RAM in my A500.

The SIN-500-2 does use some of the A500's meager power supply, but, according to Spirit, it will work properly with the available power. Any additional expansion devices should have their own power supplies, or you should purchase Spirit's optional external power supply (\$21) for the internal board.

In an earlier review, AmigaWorld criticized Spirit Technology's first internal A500 memory board for not being fully autoconfig and giving you incomplete access to the RAM on the board. I was happy to see that the problems were eliminated in this model. Before I installed the SIN-500-2, I was skeptical of the internal piggyback board technique, but now I must admit it's a viable upgrade option.

Progressive Peripherals & Software also has an in-

ternal RAM board, the **EXP-1000** (\$299.95 unpopulated; \$429.95 one megabyte). Offering the same features as the SIN-500-2, it provides only half the memory. The board does require more power, however, enough that Progressive recommends that you upgrade your power supply before installing the RAM board. I suspect the EXP-1000 has larger power requirements because it uses the cheaper 256K DRAMS chips, while the Spirit board uses one-meg DRAMS. The Spirit board has only 16 RAM chips for its two megs, while the EXP-1000 requires 32 RAM chips to give you one meg. More chips require more power.

WORTH THE TRIP

While expansion memory is easy to install and transparent to run, the configuration you choose can make all the difference in your system. If you have no future upgrade plans, get a simple, easy-to-install external RAM cartridge, such as Mini-Megs. If you want to keep the possibility open for additional upgrades, then take a look at the StarBoard-2. An internal board, such as the SIN-500-2, could be the answer for the technically adept who want their RAM out of sight and expansion bus free. The best solution, but the most expensive, is to upgrade with more memory and a hard disk at the same time. Before you buy those extra megs, however, carefully examine your needs both now and in the future. Otherwise, you might look back and regret the road not taken.

Louis R. Wallace is AmigaWorld's Senior Editor, Technology. Write to him c/o AmigaWorld Editorial Dept., 80 Elm St., Peterborough, NH 03458.

Manufacturers' Addresses

C Ltd

723 E. Skinner Wichita, KS 67211 316/267-3807

Commodore Business Machines

1200 Wilson Dr. West Chester, PA 19380 215/436-4200

Datel Computers

3430 E. Tropicana Ave. Unit 6 Las Vegas, NV 89121 702/454-7700

Great Valley Products

PO Box 391 Malvern, PA 19355 215/889-9411

M.A.S.T.

3881 Benetar Way Suite E Chico, CA 95928 916/342-MAST

Microbotics

811 Alpha Dr. Suite 335 Richardson, TX 75081 214/437-5330

Pacific Peripherals

1080 Hiawatha Ct. Fremont, CA 94539 415/651-1905

Progressive Peripherals & Software

464 Kalamath St. Denver, CO 80204 303/825-4144

Skyles Electric Works

231 S. Whisman, Suite E Mountain View, CA 94041 415/965-1735

Spirit Technology Corp.

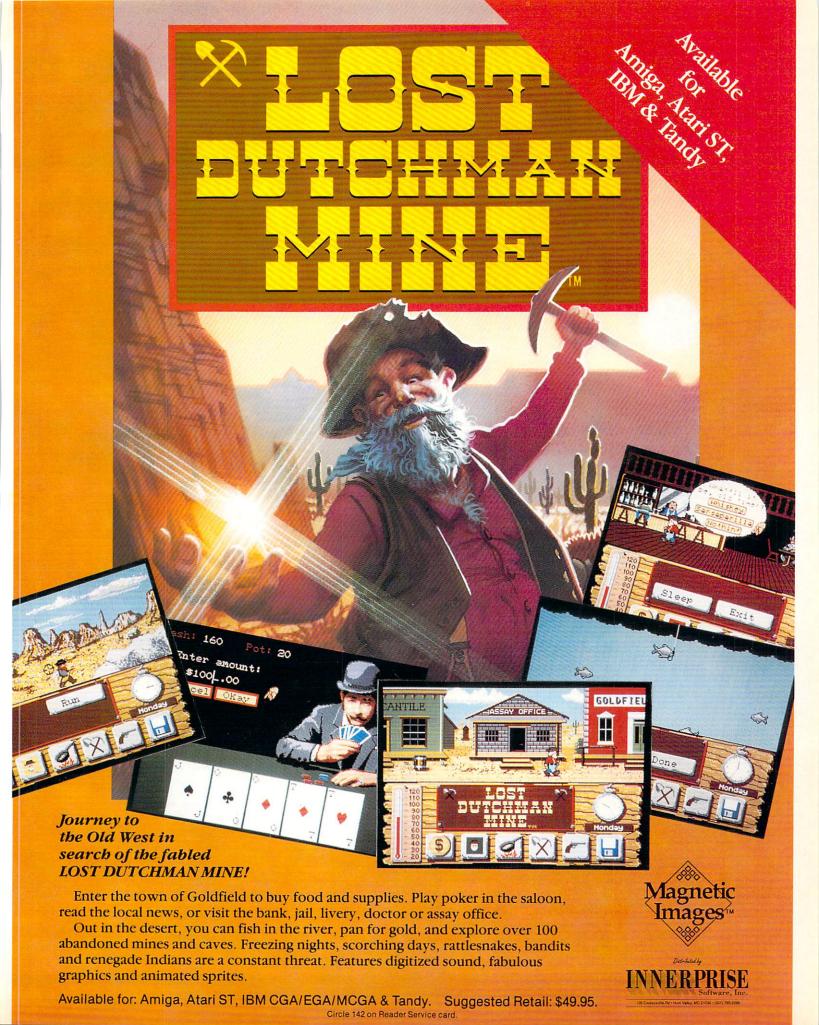
220 West 2950 South Salt Lake City, UT 84115 801/485-4233 800/433-7572

Supra Corporation

1133 Commercial Way Albany, OR 97321 503/967-9067

Xetec Inc.

2804 Arnold Rd. Salina, KS 67401 913/827-0685





Creative Computers

ORDERS 800-872-8882 U.S. ORDERS ONLY 213-542-2292 CUSTOMER SERVICE ONLY:

VISA, MasterCard, American Express, Discover, International Phone and Mail Orders, Educational, Corporate and Aerospace Purchase Orders Accepted. dale, CA 90260 Mon.-Sat. 8 a.m.-6 p.m. PST FAX: 213-214-0932

day service with-

minimum and the second
A STATE OF THE STA
HADDWADE
HARDWARE
68020-12 CPU/PROCESS 170 00
68030-16/20 CPU/PROC 570 00
68881-15 MATH COPROC 200 00 68881-20 MATH COPROC 300 00 68882-20 MATH COPROC 500 00 68882-25 MATH COPROC 620 00
60001-20 MATH COPROC 500.00
68882-25 MATH COPPOR 620 00
AMAS MIDI SAMPLER 100 05
/MI-X10 46 95
7 MAS MIDI SAMPLER 109 95 7 MAS MIDI SAMPLER 109 114 95 7 MAS MIDI SAMPLER 109 114 95 7 MAS MIDI SAMPLER 109 114 95
 AMI-X10 W/HRDWR A1000 114.95
AMIGA MUSIC PACK. 0 00 AMIGEN GENLOCK 149 00 AMPLIFIED SPEAKERS 84 95 APRODRAW 12X12 464 95 APRODRAW 12X12 W/CUR 499 95 APRODRAW 12X12 W/CUR 499 95
AMIGEN GENLOCK 149.00
AMPLIFIED SPEAKERS 84.95
APRODRAW 12X12 464.95
APRODRAW 12X12 W/CUR 499.95
APRODRAW 9X6 379.95
CA-880 FLOPPY DRIVE 199 00
CMI MIDI 1 (EXT) 52.76
COLOH SPLITTER 89.95
CSA DRAGSTRIP 649 00
APRODAM 9X5 379 95 CA-880 FLOPPY DRIVE 199 00 CMI MIDI 1 (EXT) 52 76 COLOR SPLITTER 88 95 CSA DRAGSTRIP 649 00 CSA FASTTRACK ACCEL 799 95 CSI 2200 149 00
CSI 3100 SII ENT DRIVE 159 00
CSI 2200
CUITTING COCK MAP THEN
DELITYE MIDLINTE SOD 59.95
DELLIKE MIDLINTE 1000 59.95
DESKJET 128K RAM CRTG 117 95
DIGI VIEW FOR A1000 143 95
DIGI VIEW GOLD 149.00
. DUAL SERIAL BOARD 199.95
EASYL 1000 TABLET 369.00
CSI 2000 SILENT DRIVE 159 00 CETTINE GER MAL GRIV 2003 DELUXE MIDI INTF 500 . 59 35 DELUXE MIDI INTF 500 . 143 36 DELUXE MIDI INTF 500 . 143 36 DELUXE MIDI INTF 500 . 143 30 DELUXE MIDI INTF 500 . 143 36 DELUXE MIDI 1000 . 48 35 ESCORT 13 MID CASE . 123 50 ESCORT 148MB HDD 1000 . 559 00
EASYL 500 TABLET 369.00
ECE MIDI 1000 48.95
ECE MIDI 500/2000 48.95
ESCORT 3.5HD CASE 123.50
ESCORT 48MB HDD A1000 859.00
ESCORT 48MB HDD A500 859.00
FLASH CARD 199.95 FRAMEGRABBER 539.00
FHAMEGRABBER
FUTURE SOUND 500. 93.95 FUTURE SOUND A1000 CALL GEN-ONE GENLOCK 739.00 GOMFI 3.0 W/BUTTON 48.95
GEN-ONE GENI OCK 739 00
GOME 3.0 W/RUTTON 48.95
GVP RAM/ROM MOD W/2MB 539 00
GVP RAM/ROM MODULE 69 95
HURRICANE 1000 ACCEL 350.00
GOMFI 30 W/BUTTON 48 95 GYP RAM/ROM MDD W/JRW 539 00 GYP RAM/ROM MDDULE 68 95 HURRICANE 1000 ACCEL 350 00 HURRICANE 1000 MCDEL 350 00 HURRICANE 1000 MCDEL 470 00 HURRICANE 2000 ACCEL 470 00 HURRICANE 2000 ACCEL 470 00 HURRICANE 68000 BRD 230 00 IMPRINT LIQUID LIGHT 399 00 IMPRINT LIQUID LIGHT 124 00 INTRUIDER ALERT 124 00
HURRICANE 2000 ACCEL 470.00
HURRICANE 2000 MEM BD 470.00
HURRICANE 68030 BRD 230.00
IMPRINT LIQUID LIGHT 399.00
INTRUDER ALERT 124.00
LENS 16MM NO IRIS 21.85
LENS 16MM W/IRIS 66.25
LIGHT PEN
INTRUDER ALERT 124 00 LENS 16MM NO IRIS 21.85 LENS 16MM WIRIS 66.25 LIGHT PEN 97.95 LIVE! 1000 270.00 LIVE! 500 289.00
MACNI 4004 CENI OCK 4505 00
MAGNI 4010 CONTROLLER 200 00
MICRO MEGS 140 05
MICROR ALIP M RRD SIMM 174 95
MICROB HARDFRAME SCSI 239 95
LIVEI 500 289 00 MAGNI 4004 GENLOCK . 1595 00 MAGNI 4010 CONTROLLER 299 99 MICRO MEGS . 149 95 MICROB 8UP M. BRD SIMM . 174 95 MICROB 8UP M. BRD SIMM . 174 95 MICROB 8UP DIPP 2MB . 649 00
MICROLINE MW-738
A500 POWER SUPPLY 84.95
A500 POWER SUPPLY 84.95 MIDGET RACER 349.95

OMEGA SAMPLER A1000	. 79.95
PANASONIC WV1410	225 00
PANASONIC WV1500	320.00
PEOPLE METER	39.95
PERFECT SOUND 500/200 .	. 67.95
PERFECT SOUND A1000	67.95
PERFECT VISION - ALL	199.95
PRO RAM A2000 2/8 MEG.	
PRO SOUND DESIGNER	. 119.95
PROCESSOR ACCEL	. 159.00
PROGEN GENLOCK	399 00
QUANTUM 40MB HARD DRY	
QUANTUM BOMB HARD DRY	995 00
SOUNDSCAPE MIDI PACK	. 279 95
SPIRIT DELUXE MIDI	
STAR NX1000 PRINTER	
STAR NX1000 RAINBOW	
STEREO SOUND SAMPLER.	87.95
SUPERGEN GENLOCK	699.00
SUPRA 2400 BAUD MODEM	
SUPRA 2400 INT. MODEM	159.95
TINY TIGER 30MG HRDRY	629.00
TINY TIGER 40MG HRDRY	799.00
TINY TIGER SOMG HRDRY	1129.00
TOOLBOX A1000 ECE2120	230.00
TRUMP CARD SCSI A2000	
TWIN DRIVES	279.00
UNIDRIVE	169.00

LILLI
IR TY IP IP IP IP
M
LI
LI

AEGIS DRAW 2000
ALOHA FONTS 1
ALOHA FONTS 2
ALOHA FONTS 2
ALOHA FONTS 3
ANALYTIC ART
ANIM LIB CHRISTMAS
ANIM LIB DRAGONS
ANIMAGIC
ANIMATION FLIPPER
ANIMATION FOR APPRENTICE
ANIMATIONS EDITOR
ANIMATORS EFFECTS
ANIMATORS EFFECTS
ANIMATORS MULTIPLANE

ANIMATORS MULTIPLANE . .

ton mouse for your Amiga
 Optical technology eliminates friction and momentum coefficients for super-precise handling. No moving parts for in

Boing! M

creased reliability.

Middle button makes it the only mouse compati-ble with A2024 software and X Windows.

Compatible with ALL
Amiga computers.

SPECIAL PRICE!

VAULT 30MB HARD DRIVE 699	.00
VAULT 40MB HARD DRIVE 799	00
VAULT 65MB HARD DRIVE 939	00
VI 2000 RF VIDEO INTF 79	.95
VI 2000 VIDEO INTER 69	95
VI 500 RF VIDEO INTRF 69	1.95
VI 500 VIDEO INTERF 59	9.95
X-SPECS 3D	
XEROX 4020 PRINTER 1140	00
XEROX 4020 STARTER KT 156	
ZOOM 2400 BAUD MODEM 135	3.95

3 DEMON 71	١.
3D GRAPHICS 36	5.
3D OPTIONS	2
ACAD TRANSLATOR 139	9.
AEGIS ANIMATOR39	3
AEGIS DRAW 1.4 52	2.

The "We Want Everyone's Business"

. 64.95 . 68.47 . 38.00 449.00 749.00 299.00 449.00 749.00 299.00

	DIO W - CO
	Music-X \$149.95
	Deluxe Paint II
	(reg. ⁵ 99.95)
	(book) 19.95
	Deluxe Video II
	Deluxe Paint II & Deluxe
	Video II (combo) 79.95
	Acquisition Database
	(reg. \$395) 49.95
	Dark Castle 9.95
	Lurking Horror 9.95
	Coftwood File II 10 05
	Ports of Call 19.95
	NIT tonts (Koman, Jans Jerit
1	or Comix) 24.95
	Amiga Textcraft Plus 29.95
	Graphics Studio 19.95
١	Forms In Flight II (3D animation, very powerful,
	incredible value—
	reg. \$179) 49.95
	Gizmos 2.0 9.95
	Activision Championship
	Football 9.95
	GO-64 (C-64 emul.) 9.95

MINIMEGS A500 1MB

MINIMEGS A500 2MB MINIMEGS A500 512K



E E E . 1000
Money Mentor 19.95
Evil Garden 14.95
Joe Blade 14.95
Mind Walker 9.95
Cubemaster by ASDG, Slaygon,
Deep Space, Arena, War Zone,
Space Station or Fire Blaster
(ea.) 5.00
These items are available for the
indicated special prices only if
ordered with any other regular item.
Minimum order \$20.00.
WHILE SUPPLY LASTS!

ANIMATORS STAND	
ANIMOTION	. 62.95
ART COMPANION	19.95
ART GALLERY 1 & 2	. 25.95
ANIMATORS STAND ANIMOTION ART COMPANION ART GALLERY 1 & 2 ART GALLERY FANTASY ASHAS CALLIGRA FONTS 8 BOARD MASTER 8 BOARD STITLER	58.95
. BOARD MASTER	64.95
BOARD MASTER BROADCAST TITLER BRUSH WORKS	194.95
BRUSH WORKS	. 20.95
BRUSH WORKS 2 BUTCHER 2 0 C LIGHT CAD PARTS 4 INTROCAD CALIGARI	23 13
C LIGHT	. 38.95
CAD PARTS 4 INTROCAD	. 16.50
CALIGARI CONSUMER	495.00
CALLIGRAPHERCHROMA PAINT	51.95
CHYPESK COMPANION CLIP ART #1 CLIP ART #2 CLIP ART #3 CLIP ART #3 CLIP ART #5 CLIP ART #5 CLIP ART #5 CLIP ART #7 CLIP ART #8 COMPANION	. 12.95
CLIP ART #2	12.95
CLIP ART #4	12.95
CLIP ART #5	12.95
CLIP ART #6	. 12.95
CLIP ART #7	12.95
COMIC SETTER	64.96
COMICSETTER FUNNYDATA	22.95
COMICSETTER HERO DATA	22.95
COMICSETTER SF DATA	. 22.95
CLIP ART #5 CLIP ART #7 CLIP ART #7 CLIP ART #7 CDMIC SETTER CDMICSETTER FUNNYDATA CDMICSETTER HERO DATA CDMICSETTER HERO DATA CDMICSETTER HERO DATA CDMICSETTER HERO DATA CDMICMET PARTS #7 DELUXE ART PARTS #7 DELUXE ART PARTS #7 DELUXE PARTY ART WITH DELUXE PRODUCTION S DELUXE PRODUCTIONS DEMONSTRATOR	21.95
DELUXE MAPS	16.95
DELUXE PAINT ART/UTIL	21.95
DELUXE PHOTO LAB	. 99.95
DELUXE PRINT ART #1	. 23.95
DEMONSTRATOR	139.95
DEMONSTRATOR DESIGN DISKS FOR TURBO	. 21.33
SILVER, SCULPT ANIMATE	
SILVER, SCULPT ANIMATE OR VIDEOSCAPE (EA) DESIGN 3D DESKTOP ARTIST DIGI PAINT 3 0	. 22.74
DESIGN 3D	. 64.95
DESKTOP ARTIST DIGI PAINT 3 0. DIGI VIEW UPGRADE **DIRECTOR, THE DIRECTOR, THE DIRECTOR TOOLKIT DLX HLP WIDDIAINT II DLX HLP WIDDIAINT II DLX HLP WICALIGRAPHER DOUGS COLOR COMMANDER	65.00
DIGI VIEW UPGRADE	13.95
DIGIWORKS 3D	84.95
DIRECTOR, THE	45.95
DIRECTORS TOOLKIT	. 24.95
DLX HLP W/DIGIPAINT II	21.84
DLX HLP W/PHOTON PNT	21.95
DLX HLP W/CALIGRAPHER	22.71
DOUGS COLOR COMMANDER	19.46
DOUGS MATH AQUAR LIB	. 9 95
DLX HLP WIPHOTON PNT DLX HLP WICALIGRAPHER DOUGS COLOR COMMANDER DOUGS MATH AQUAR LIB. EXPRESS PAINT 3.0 FANCY 3D FONTS. FANCY 3D FONTS SILVER FANTAVISION. FIF MODULE FONT WORKS.	46.95
FANCY 3D FONTS SILVER	51.95
FANTAVISION	42.95
FIF MODULE	. 14.95
FONTS AND DODDEDS	23.95
FIF MODULE FONT WORKS FONTS AND BORDERS FORMS IN FLIGHT II GALLERY 3-D • BOLD DISK FONT SET #1 GRABBIT GRABBIT GRABBIT GRABBIT GRAPHICS STAFFER KIT	79 95
GALLERY 3-D	51.95
. GOLD DISK FORT SET #1	. 21.85
GRABBIT	. 20.95
HAMMANDEL	. 64.95 . 25.95
HAMMANDEL HOME BUILDERS CAD HOMETOWN USA ICON PAINT	129.95
· HOMETOWN USA	25.95
ICON PAINT	. 58.95
INTERCHANGE CONVER	16.05
ICON PAINT INTERCHANGE INTERCHANGE CONVER INTERCHANGE OBJ #1 INTERCHANGE TSLV MODL	. 16.95
INTERCHANGE TSLV MODL	12.96
INTERFORTS	. 13.30
INTROCAD	49.95
JET SET FONT SET	32.50
KARA FONTS HEADLINES	51.95
KARA FONTS HEADLINES2	47.95
LASER UPLEONTS VOL	47.95
LIGHTS CAMERA ACTION	. 59 95
LION'S CALLIGRA FONTS	. 58 95
INTROCAD INVISION JET SET FONT SET KARA FONTS HEADLINES KARA FONTS HEADLINES KARA FONTS SUBHEADS. LASER UP FONTS VOL L LIGHTS CAMERA ACTION. LION'S CALLIGRA FONTS. MASTERFONTS 30 VOL 1 MASTERFONTS.	24.95
MASTERPIECE FONTS	167.95
MASTERPHICE FONTS MASTERPHICE FONTS MEDIALINE BACKGRND 1 MEDIALINE CLIP ART MEDIALINE FONTS MODELER 30 MOVIE SETTER NEWSLETTER FONTS COLR PAGE FLIPPER	22.95
MEDIALINE FONTS	. 22.95
MODELER 3D	. 65.00
MOVIE SETTER	64.95
PAGE ELIPPER	29.95
PAGE FLIPPER PLUS F/X	103.95
	. 94.95
· PAGE STREAM FONTS	
1-5 & A-C (m.)	. 25.95
PERFORMER (ELAN) PHOTON CELL ANIMATOR	. 99.95
PHOTON PAINT	. 64.96
PHOTON PAINT 2.0	. 99.95
PHOTON PAINT EXP. DSK	. 19.95 194.95
PIXMATE	
PRINT MASTER ART #1 PRINT MASTER ART #2	. 18.73
PRINT MASTER ART #2	. 18.73
PRO FONTS 1	. 22.95
PRO VIDEO GOLD	194.95
THE THEO DOLD	

vd., I	Lawndale, C
181 95	PRO VIDEO PLUS PROFESSIONAL DRAW
12 95 12 95 12 95 37 48 19 95	RESEP (ASDG) • SCULPT 30XL
51.95	STRUCTURED CLIP ART STUDIO FONTS V1 TALKING ANIMATOR, THE TATE FONTS.
. 38.95 . 51.95 . 184.95 . 38.95 . 32.46	TERRAIN FOR TURBOSILV TURBO SILVER 3.0 TV SHOW TV TEXT
58.46 32.46 62.95	Next day service w
19 95 25 95 23 36 58 95 64 95	EEDERA
194.95 20.95 22.71 23.13	Order by 12 noon (P and receive in-stock
38.95 16.50 495.00	Order by 12 noon (P and receive in-stock the following day. Rates start at \$5.00 Please call for exact and details.
164.95 84.95 51.95 19.95	VIDEO EFFECTS 3D
12.95 12.95 12.95 12.95	VIDEO VISIONS 1 VIDEO VISIONS 2 VIDEOSCAPE 3D VIDEOTITLER
12.95 12.95 12.95 12.95	XCAD DESIGNER
64 96 22 95 22 95 22 95	MUSIC ADRUM AUDIOMASTER
21.95 21.95 16.95 21.95	C-ZAR
99.95 23.95 139.95 21.95	DR. T'S 4-OP ED/LIB DR. T'S BACH SONGBOOK . DR. T'S CASIO V21
22.74 64.95	The LARG
18.95 65.00 13.95 84.95	Dealer o
45.95 24.95 21.84 21.84	OVER
21 95 22 71 19 46 . 9 95	The best NEW p
90.95 46.95 51.95 42.95	DR. TS COPYIST DR. TS COPYIST II DR. TS CZ CARTRIDGE DR. TS CZ RIDER
14.95 25.95 22.95 79.95	DR. T'S D-110 ED/LIB DR. T'S D-50 ED/LIB DR. T'S DR. DRUMS
51.95 21.85 20.95 64.95	DR. TS DX7 ED/LIB DR. TS ESQ-APADE 1 DR. TS KAWAI K-1
25.95 129.95 25.95 58.95	DR. T'S KCS
32.46 16.95 16.95 12.96	DR. T'S MIDI REC. STD DR. T'S MT-32 ED/LIB
75.36 49.95 99.95 32.50	DYNAMIC DRUMS. DYNAMIC STUDIO HIT DISK VOL 1 HOT & COOL JAZZ
51 95 47 95 47 95 31 95	INSTANT MUSIC 1 2. IT'S ONLY ROCK & ROLL LIFE CYCLES AMIGA. MINTELLIBENT MUSIC MIDI MAGIC
59.95 58.95 24.95 167.95	MUSIC MOUSE
25.95 22.95 22.95 65.00	SAMPLEWARE - DIGITAL . SAMPLEWARE - GRAB BAG SAMPLEWARE - ORCHESTF SAMPLEWARE - ROCK .
64.95 29.95 31.23 103.95	SONIX. SOUND DASIS SOUNDLAB. SOUNDQUEST EDITORS AN LIBRARIANS (call for price
94.95 25.95 38.95	SOUNDSCAPE PATTERN SI SOUNDSCAPE UTIL I
99.95 64.96 99.95 19.95	SOUNDSCAPE UTIL. II STUDIO MAGIC SYNTHIA ZOUND SOUNDS VOL 1
194 95	

	DISCOVERY W/MATH
er by 12 noon (P.S.T.)	DISCOVERY W/SPELLING DISCOVERY W/TRIVIA
er by 12 noon (P.S.T.) receive in-stock items following day. es start at \$5.00.	DISCRETE MATHEMATICS EXPLORER, THE
tollowing day.	FIRST LETTERS & WORDS FIRST SHAPES
se call for exact rates	FIRST SHAPES
details.	FRACTION ACTION
PPLICABLE TO ALL ITEMS.	GEOMETRIC LIBRARY
FFFCTS 3D 129 96	GRADE MANAGER
ISIONS 1 12.95	INTELLITYPE
ISIONS 2 12.95	KIDTALK
FFECTS 3D 129 96 ISIONS 1 12 95 ISIONS 2 12 95 IAPE 3D 124 95 TLER 99 95	KINDERAMA
	LEARNING CURVE LEARNING THE ALPHABET
SIGNER 94 95	LINKWORD DUTCH
DNTS 1-4 PACK 68 95	LINKWORD FRENCH LINKWORD GERMAN
PE	LINKWORD GREEK
MUSIC	LINKWORD ITALIAN LINKWORD PORTUGUESE
51 98	LINKWORD PURTUGUESE.
ASTER 37 48	LINKWORD RUSSIAN LINKWORD SPANISH
ASTER	LOTTO PROGRAM
MUSIC 2 0	
4-0P ED/LIB 92.95 BACH SONGBOOK 17.95	
BACH SONGBOOK 17 95 CASIO V21 92 95	MASTERING CLI
ASIO ASI 35.33	MATCH IT
1243 1 1 1 1 1 1 1 1 1	
ADGEST	Internation
anion of AM	IIGA Produ
culer of An	IIVA PIVUV
3- 46-51	WORLD!
in inc	MAKTA:
VER 13	OO ITEM
best NEW product	s • The LOWEST PR
PRODUCTS ARRIVE DAIL	
	LY. CALL FOR UNLISTED I
	LY. CALL FOR UNLISTED I
	MATH MAGICIAN
	MATH MAGICIAN
	MATH MAGICIAN MATH TALK MATH TALK MATH TALK FRACTIONS MATH WIZARD MATH AMATION
	MATH MAGICIAN MATH TALK MATH TALK FRACTIONS MATH WIZARD MATH AMATION MATH SECON TORRISON
	MATH MAGICIAN MATH TALK MATH TALK FRACTIONS MATH WIZARD MATH AMATION MATH SECON TORRISON
DOPYIST 155.38 COPYIST II 159.95 CZ CARTRIDGE 61.95 CZ RIDER 92.95 D-110 ED/LIB 92.95 D-50 ED/LIB 92.95 D-50 DR KEYS 17.95 DR KEYS 17.95 DR KEYS 17.95 DR KEYS 19.95	MATH MAGICIAN MATH TALK MATH TALK FRACTIONS MATH WIZARD MATH-AMATION MAVIS BEACON TYPING MUSIC STUDENT
COPYIST. 155.38 COPYIST II 159.95 CZ CARTRIDGE 61.95 CZ RIDER 92.95 D-110 ED/LIB 92.95 D-50 ED/LIB 92.95 D-50 ED/LIB 92.95 DR DRIMS 17.95 DX F DVI B 92.95 DX F DVI B 92.95	MATH MAGICIAN MATH TALK MATH TALK MATH TALK FRACTIONS MATH WIZARD MATH-MATION MATH-BMATION MOTHER GOOSE MUSIC STUDENT MY PAINT PERFECT SCORE
COPYIST. 155.38 COPYIST II 159.95 CZ CARTRIDGE 61.95 CZ RIDER 92.95 D-110 ED/LIB 92.95 D-50 ED/LIB 92.95 D-50 ED/LIB 92.95 DR DRIMS 17.95 DX F DVI B 92.95 DX F DVI B 92.95	MATH MAGICIAN MATH TALK MATH TALK MATH TALK FRACTIONS MATH WIZARD MATH-WAMATION MAVIS BEACON TYPING MOTHER BOOSE MUSIS STUDENT PERFECT SCORE PHOTOSYSNITHESIS PINBALL IS
COPYIST. 155.38 COPYIST II 159.95 CZ CARTRIDGE 61.95 CZ RIDER 92.95 D-110 ED/LIB 92.95 D-50 ED/LIB 92.95 D-50 ED/LIB 92.95 DR DRIMS 17.95 DX F DVI B 92.95 DX F DVI B 92.95	MATH MAGICIAN MATH TALK MATH TALK MATH TALK FRACTIONS MATH WIZARD MATH-MATION MAVIS BEACON TYPING MOTHER GOOSE MUSIC STUDENT MY PAINT PERFECT SCORE PHOTOSYSTITESS PINBALL 10 LANET PROBE
COPYIST 155.38 COPYIST 1 159.95 CZ CARTRIDGE 61.95 CZ CARTRIDGE 61.95 CZ CARTRIDGE 61.95 CZ RIDER 92.95 D-110 EDI/LIB 92.95 D-10 EDI/LIB 92.95 DR DRUMS 17.95 DR KEYS 17.95 DX F EDI/LIB 92.95 SAY EDI/LIB 92.95 KAWAI K-1 92.95 KAWAI K-1 92.97 KAWAI K-1 92.95 KCS 154.95	MATH MAGICIAN MATH TALK MATH TALK MATH TALK MATH TALK MATH WIZARD MATH WIZARD MATH WIZARD MOTHER GOOSE MUSIC STUDENT MY PAINT PERFECT SCORE PHOTOSYSNTHESIS PINBALL 10 PLANET PROBE PRE CALCULUS
COPYIST 155.38 COPYIST 1 159.95 CZ CARTRIDGE 61.95 CZ CARTRIDGE 61.95 CZ CARTRIDGE 61.95 CZ RIDER 92.95 D-110 EDI/LIB 92.95 D-10 EDI/LIB 92.95 DR DRIMS 17.95 DR KEYS 17.95 DX F EDI/LIB 92.95 SAY EDI/LIB 92.95 KAWAI K-1 92.95 KAWAI K-1 92.97 KAWAI K-1 92.95 KCS 154.95	MATH MAGICIAN MATH TALK MATH TALK MATH TALK FRACTIONS MATH WIZARD MATH-WAATION MATH-WAATION MATH-WAATION MATH-WAATION MOTHER GOOSE MUSIC STUDENT MERIFET SCORE PHOTOSYSNITHESIS PIBBALLO PLANET PROBE PRE CALCULUS PROBABILITY THEORY PUNCTUATION SERIES
COPYIST 155.38 COPYIST 1155.38 COPYIST 1155.35 COPYIST 1155.35 COPYIST 1155.35 COPYIST 1155.35 COPYIST 1155.35 COPYIST 155.35 COPYIST 155.35 COPYIST 155.35 COPYIST 1755 COPYI	MATH MAGICIAN MATH TALK MATH TALK MATH TALK FRACTIONS MATH WIZARD MATH-MATION MAVIS BEACON TYPING MOTHER GOOSE MUSIC STUDENT MY PAINT PERFECT SCORE PHOTOSYSTHESIS PINBALL 10 PLANET PROBE PRE CALCULUS PROBABILITY THORY PUNCTUATION SRIES PUZZIE STORYBOOK
COPYIST 155.38 COPYIST 1155.38 COPYIST 1155.35 COPYIST 1155.35 COPYIST 1155.35 COPYIST 1155.35 COPYIST 1155.35 COPYIST 155.35 COPYIST 155.35 COPYIST 155.35 COPYIST 1755 COPYI	MATH MAGICIAN MATH TALK MATH TALK MATH TALK FRACTIONS MATH WIZARD MATH-WAATION MATH-WAATION MATH-WAATION MATH-WAATION MOTHER GOOSE MUSIC STUDENT MERIFET SCORE PHOTOSYSNITHESIS PIBBALLO PLANET PROBE PRE CALCULUS PROBABILITY THEORY PUNCTUATION SERIES
COPYIST 155.38 COPYIST 1155.38 COPYIST 1155.35 COPYIST 1155.35 COPYIST 1155.35 COPYIST 1155.35 COPYIST 1155.35 COPYIST 155.35 COPYIST 155.35 COPYIST 155.35 COPYIST 1755 COPYI	MATH MAGICIAN MATH TALK MATH TALK FRACTIONS MATH TALK FRACTIONS MATH MATION MATH-MATION MAVIS BEACON TYPING MOTHER GOOSE MUSIC STUDENT MY PAINT PERFECT SCORE PHOTOSYSTHESIS PINBALL 10 PLANET PROBE PRE CALCULUS PROBABILITY THEORY PUZZLE STOYSEOK OUZ MASTER.
COPYIST 155.38 COPYIST 1155.38 COPYIST 1155.35 COPYIST 1155.35 COPYIST 1155.35 COPYIST 1155.35 COPYIST 1155.35 COPYIST 155.35 COPYIST 155.35 COPYIST 155.35 COPYIST 1755 COPYI	MATH MAGICIAN MATH TALK MATH TALK FRACTIONS MATH TALK FRACTIONS MATH MATION MATH-MATION MAVIS BEACON TYPING MOTHER GOOSE MUSIC STUDENT MY PAINT PERFECT SCORE PHOTOSYSTHESIS PINBALL 10 PLANET PROBE PRE CALCULUS PROBABILITY THEORY PUZZLE STOYSEOK OUZ MASTER.
COPYIST 155.38 COPYIST 1155.38 COPYIST 1155.35 COPYIST 1155.35 COPYIST 1155.35 COPYIST 1155.35 COPYIST 1155.35 COPYIST 155.35 COPYIST 155.35 COPYIST 155.35 COPYIST 1755 COPYI	MATH MAGICIAN MATH TALK MATH TALK FRACTIONS MATH TALK FRACTIONS MATH MATION MATH-MATION MAVIS BEACON TYPING MOTHER GOOSE MUSIC STUDENT MY PAINT PERFECT SCORE PHOTOSYSTHESIS PINBALL 10 PLANET PROBE PRE CALCULUS PROBABILITY THEORY PUZZLE STOYSEOK OUZ MASTER.
COPYIST 155.38 COPYIST 1155.38 COPYIST 1155.35 COPYIST 1155.35 COPYIST 1155.35 COPYIST 1155.35 COPYIST 1155.35 COPYIST 155.35 COPYIST 155.35 COPYIST 155.35 COPYIST 1755 COPYI	MATH MAGICIAN MATH TALK MATH TALK FRACTIONS MATH TALK FRACTIONS MATH-MATION MATH-MATION MAVIS BEACON TYPING MOTHER GOOSE MUSIC STUDENT MY PAINT PERFECT SCORE PHOTOSYSTHESIS PINBALL 10 PLANET PROBE PRE CALCULUS PROBABILITY THEORY PUZZLE STORYBOOK OUIZ MASTER
COPYIST 155.38 COPYIST 1155.38 COPYIST 1155.35 COPYIST 1155.35 COPYIST 1155.35 COPYIST 1155.35 COPYIST 1155.35 COPYIST 155.35 COPYIST 155.35 COPYIST 155.35 COPYIST 1755 COPYI	MATH MAGICIAN MATH TALK MATH TALK MATH TALK FRACTIONS MATH WIZARD MATH-MATION MAVIS BEACON TYPING MOTHER GOOSE MUSIC STUDENT MY PAINT PERFECT SCORE PHOTOSYSTHESIS PINBALL 10 PLANET PROBE PRE CALCULUS PROBABILITY THORY PUNCTUATION SRIES PUZZIE STORYBOOK
15.5 MB 15.5	MATH MAGICIAN MATH TALK FRACTIONS MATH TALK FRACTIONS MATH TALK FRACTIONS MATH TALK FRACTIONS MATH SALE FRACTIONS MATH SALE FRACTIONS MATH SALE FRACTIONS MOTHER GOOSE MUSIC STUDENT MY PAINT PERFECT SCORE PHOTOSYSTITESIS PINBALL 10 PLANET PROBE PRE CALCULATION SERIES PRO SERIES PRE CALCULATION SERI
200PIST 155.38	MATH MAGICIAN MATH TALK MATH TALK MATH TALK FRACTIONS MATH WIZARD MASTER MASTER MASTER MASTER PERFECT SCORE PHOTOSYSTITESIS PINBALL 10 PLANET PROBE PRE CALCULUS PROBABILITY THEORY PUNCTUATION SERIES PUZZLE STORYGOOK OUIZ MASTER AMAX EMUISTOR MAX EMUISTOR MAX EMUISTOR MAX EMUISTOR MAX EMUISTOR MAX EMUISTOR MATHERITARIA MATHERITARIA MAX EMUISTOR MATHERITARIA
200PIST 155.38	MATH MAGICIAN MATH TALK FRACTIONS MATH TALK FRACTIONS MATH WIZARD MATH WIZARD MATH WIZARD MOTHER GOOSE MUSIC STUDENT MY PAINT PERFECT SCORE PHOTOSYSTITESIS PINBALL 1 0 PLANET PROBE PRE CALCULUS PROBABILITY THEORY PUXCTUATION SERIES. PUZZLE STORYSOOK OUIZ MASTER. AMAX EMUISTOR MAX EMI
200PIST 155.38	MATH MAGICIAN MATH TALK MATH TALK FRACTIONS MATH TALK MATH TALK FRACTIONS MATH-MATION MATH-MATION MATH-MATION MATHS BEACON TYPING MOTHER GOOSE MUSIC STUDENT PERFECT SCORE PHOTOSYSNITHESIS PINBALL 10 PLANET PROBE PRE CALCULUS PROBABILITY THEORY PUNCTUATION SERIES PUZZLE STORYBOOK OUIZ MASTER AMAX EMUIST FOR THE AM AMAX EMUISTO MAC 128K EPROMS AMIG-G-105H 880K FIGORY GISK drive
200PIST 155.38	MATH MAGICIAN MATH TALK MATH TALK FRACTIONS MATH TALK MATH TALK FRACTIONS MATH-MATION MATH-MATION MATH-MATION MATHS BEACON TYPING MOTHER GOOSE MUSIC STUDENT PERFECT SCORE PHOTOSYSNITHESIS PINBALL 10 PLANET PROBE PRE CALCULUS PROBABILITY THEORY PUNCTUATION SERIES PUZZLE STORYBOOK OUIZ MASTER AMAX EMUIST FOR THE AM AMAX EMUISTO MAC 128K EPROMS AMIG-G-105H 880K FIGORY GISK drive
200PIST 155.38	MATH MAGICIAN MATH TALK MATH TALK FRACTIONS MATH TALK FRACTIONS MATH WIZARD MATH-MATION MAVIS BEACON TYPING MOTHER GOOSE MUSIC STUDENT MY PAINT PERFECT SCORE PHOTOSTSYNTESIS PHOTOSTSYNTESIS PHOTOSTSYNTESIS PROBABILITY THEORY PUNCTUATION SERIES PUZZLE STORYBOOK OUIZ MASTER AMAX EMILITY FOR THE AM AMAX EMILITO Mic 128K FROMS AMIG-a-105H 880K floppy disk drive COMPLETE PACC
200PIST 155.38	MATH MAGICIAN MATH TALK MATH TALK FRACTIONS MATH TALK MATH TALK FRACTIONS MATH-MATION MATH-MATION MATH-MATION MATHS BEACON TYPING MOTHER GOOSE MUSIC STUDENT PERFECT SCORE PHOTOSYSNITHESIS PINBALL 10 PLANET PROBE PRE CALCULUS PROBABILITY THEORY PUNCTUATION SERIES PUZZLE STORYBOOK OUIZ MASTER AMAX EMUIST FOR THE AM AMAX EMUISTO MAC 128K EPROMS AMIG-G-105H 880K FIGORY GISK drive
200PIST 155.38	MATH MAGICIAN MATH TALK FRACTIONS MATH TALK FRACTIONS MATH WIZARD MATH WIZARD MATH WIZARD MATH WIZARD MOTHER GOOSE MUSIC STUDENT MY PAINT PERFECT SCORE PHOTOSYSTITESIS PINBALL 10 PLANET PROBE PRE CALCULUS PROBABILITY THEORY PUNCTUATION SERIES. PUZZLE STORYBOOK OUZZ ESTORYBOOK OUZZ MASTER AMAX EMUISTOR AMAX EMUISTOR MAX EMUISTOR MOT 128K FROMS AMIG-0-105H 880K floppy disk drive COMPLETE PACA All the above only
15.38 18.50 18.5	MATH MAGICIAN MATH TALK MATH WIZARD MATH-MAMATION MAVIS BEACON TYPING MOTHER GOOSE MUSIS STUDENT MOTHER GOOSE MUSIS STUDENT MOTHER GOOSE MUSIS STUDENT MOTHER GOOSE MUSIS STUDENT MOTHER PERFECT SCORE PHOTOSYSNITESIS PINBALL 1 0 PLANET PROBE PRE CALCULUS PROBABILITY THEORY PUNCTUATION SERIES PUZZLE STORYBOOK OUIZ MASTER AMAX EMUIST MAC 128K EPROMS AMIG-G-105H 880K floppy disk drive COMPLETE PACA All the above only GUIZAM BEACH FOR THE STARS.
15.38 18.50 18.5	MATH MAGICIAN MATH TALK FRACTIONS MATH TALK FRACTIONS MATH WIZARO MATH WIZARO MATH WIZARO MOTHER GOOSE MUSIC STUDENT MY PAINT PERFECT SCORE PHOTOSYSTITESIS PINBALL 1 0 PLANET PROBE PRE CALCULUS PROBABILITY THEORY PUXCTUATION STRIES. PUZZLE STORYSOOK OUIZ MASTER. AMAX EMUISTOR FOR THE AM AMAX EMUISTOR MAX EMUISTOR MAX EMUISTOR MOC 128K PROMS AMIG-010SH 830K floppy disk drive COMPLETE PACI All the above only OUIZAM REACH FOR THE STARS, READ & RIVE.
15.5 18.5	MATH MAGICIAN MATH TALK FRACTIONS MATH TALK FRACTIONS MATH WIZARD MATH WIZARD MATH SEACON TYPING MOTHER GOOSE MUSIC STUDENT MY PAINT PERFECT SCORE PHOTOSYSTITESIS PINBALL 1 0 PLANET PROBE PRE CALCULUS PROBABILITY THEORY PUNCTUATION SERIES. PUZZLE STORYBOOK OUIZ MASTER AMAX EMILITY FOR THE AM AMAX EMILITY AMAX EMILITY OUIZAM AMIG-010SH 830K COMPLETE PACI AII the above only OUIZAM REACH FOR THE STARS. READ B. RWE RE
15.5 18.5	MATH MAGICIAN MATH TALK FRACTIONS MATH SEACON TYPING MOTHER GOOSE MUSICS STUDENT MY PAINT PERFECT SCORE PHOTOSYSNTHESIS PINBALL 10 PLANET PROBE PRE CALCULATION PROBABILITY THOPY PROBABILITY PROBABILIT
15.5 18.5	MATH MAGICIAN MATH TALK FRACTIONS MATH SEACON TYPING MOTHER GOOSE MUSICS STUDENT MY PAINT PERFECT SCORE PHOTOSYSNTHESIS PINBALL 10 PLANET PROBE PRE CALCULATION PROBABILITY THOPY PROBABILITY PROBABILIT
15.5 18.5	MATH MAGICIAN MATH MAGICIAN MATH TALK MATH TALK FRACTIONS MATH WIZARD MATH WIZARD MATH WIZARD MATH WIZARD MATH WIZARD MATH SEACON MASTER MASTER MASTER PERCEALCULUS PROBABILITY THEORY PUNCTUATION SERIES PUZZLE STORYBOOK OUIZ MASTER AMAX EMUIST FOR THE AM AMAX EMUIST MAC 128K FROMS AMIG-B-TOSH 880K RIGOPY disk drive COMPLETE PAC All the above only OUIZAM REACH FOR THE STARS READ & RYME RE
15.38 18.50 18.5	MATH MAGICIAN MATH TALK FRACTIONS MATH TALK FRACTIONS MATH WIZARD MATH WIZARD MATH SEACON TYPING MOTHER GOOSE MUSIC STUDENT MY PAINT PERFECT SCORE PHOTOSYSTITESIS PINBALL 1 0 PLANET PROBE PRE CALCULUS PROBABILITY THEORY PUNCTUATION SERIES. PUZZLE STORYBOOK OUIZ MASTER AMAX EMILITY FOR THE AM AMAX EMILITY AMAX EMILITY OUIZAM AMIG-010SH 830K COMPLETE PACI AII the above only OUIZAM REACH FOR THE STARS. READ B. RWE RE

TS KCS LEVEL II 219.95	PRE CALCULUS 36.9
TS LEXICON 92.95	PROBABILITY THEORY 36.9
TS MATRIX-6 92.95	PUNCTUATION SERIES 19.4
T'S MIDI REC. STD 43.50	PUZZLE STORYBOOK 27.9
TS MT-32 ED/LIB 92.95	QUIZ MASTER 49.9
UM STUDIO	doic milorent transfer in the
NAMIC DRUMS	
NAMIC STUDIO 139.00	
DISK VOL 1	AMAX MAC EMULATOR
T & COOL JAZZ 21.95	DOTA HIME A CALL ATOD
	ATTENTANT CHUICHIUK
TANT MUSIC 1.2 33.00	FOR THE AMIGA!
ONLY ROCK & ROLL 21.95	FUR THE AMIGA:
E CYCLES AMIGA 19 46	AMAX Emulator \$139
NTELLIGENT MUSIC 143.45	Mac 128K EPROMS \$149
OI MAGIC	
DIVU 29.95	AMIG-a-TOSH 880K
SIC MOUSE 51.95	AMIG-a-TOSH 880K floppy disk drive \$179
D MIDI STUDIO 130.95	
MPLEWARE - DIGITAL 16.95	COMPLETE PACKAGE!
MPLEWARE - GRAB BAG 16.95	All the above only \$429
MPLEWARE - ORCHESTR 16.95	
MPLEWARE - ROCK 16.95	
NIX 49.95	QUIZAM 23.1
UND OASIS 64.95	REACH FOR THE STARS 27.5
UNDLAB 209.95	READ & RYME
UNDQUEST EDITORS AND	READ-A-RAMA 32.4
BRARIANS (call for prices availability) CALL	ROCK CHALLENGE 25.5
nd availability) CALL	RR AESOP'S FABLES 19.5
UNDSCAPE PATTERN SPLT 35.95	RR LITTLE RED HEN 19.5
UNDSCAPE UTIL 1 35.95	RR THREE LITTLE BEARS 19.5
UNDSCAPE UTIL II 42.95	RR THREE LITTLE PIGS 19.5
UDIO MAGIC 64.95	RR UGLY DUCKLING 19.4
NTHIA	SMOOTH TALKER 33.5
UND SOUNDS VOL 1 21.95	SOCIAL STUDIES VOCAB 19.4
	SPACE MATH 29.5
EDUCATIONAL	SPELLBOUND
3 Z00 25.99	SPELLER BEE
VENTURES OF SINBAD 32.46	SPELLING IMPROVEMENT 25.1
SOP'S FABLES 19.95	TALES FROM ARABIAN NT 32
GEBRA I 36.95	TALKING COLORING BOOK 18.5
GEBRA II	TRANSCONT. RAILROAD 25.
ocom minimum occurs	

BASIC GRAMMER SERIES	19.46
BOOMERAID	32.46
CALCULUS	36.95
CAPITALIZATION SERIES	19.46
CHICKEN LITTLE	19.95
	34.95
DECIMAL DUNGEON	32.46
DES CARTES	22.95
DESIGNASAURUS	32 46
DINDSAUR DISCOVERY KT DINOSAURS ARE FOREVER	27.95
. DINOSAURS ARE FOREVER	25.95
. DISCOVER ALPHABET	14.95
	14.95
DISCOVER HISTORY/GEO	14.95
	14.95
DISCOVER NUMBERS	14.95
DISCOVERY DATA	2000
DISKS (EA.)	12.97
	25.00
	25 00
	36.95 36.95
	33.00
	33.00
	12 46
	15 46
GEOMETRIC LIBRARY	11.95
	58.95
	25 95
	35 95
	7 95
	32.46
	1 95
	9.46
	0.55
	20.55
	20.55
	20.55
	0.55
	20.55
	20.55
LINKWORD SPANISH	20.55
	9.95
MAD LIBS 1	2.48
MAGICAL MYTHS	32.45
MAGICIANS DUNGEON	
	25.95
MATCH IT	5.95
CONTRACTOR AND ADDRESS OF THE PARTY.	-
4 6	
nternationa	
IIIGIIIUIIU	

A Products

) ITEMS

The LOWEST PRICES

LL FOR UNLISTED ITEMS.

COURBOOK - DES COOKBOOK - VAR DATA RETRIEVE DATA RETRIEVE DB-MAN INTERPE DESIGNER DBASI DESIGNER DBASI DESKTOP BUDG EAST LEDGERS EXCELLENCE (I MB VER) FAMILY TREE FLEET CHECK FLOW FORMATION GOLD SPELL II IMPACT INVESTOR'S ADVANTAGE KINDWORDS MAXIPLAN PLUS MICROFICHE FILER MICROFICHE FILER PLUS MICROLAWYER MONEY MENTOR NOREEN GENEALOGICAL NUTRIFAX DOCAMITE ORGANIZE.... PAGE STREAM PAGE STREAM PHASAR PRO PAGE TEMPLATES PROFESSIONAL PAGE V 1.2 PROJECT MASTER PROSCRIPT PROWRITE 2.0 PUBLISHERS CHOICE

RECIPE FAX
· SCRIBBLE PLATINUM
SECURITIES ANALYST
SHAKESPEARE
SOFTWOOD FILE SG
SUPERBASE
SUPERBASE PERS. II
SUPERBASE PERS II
SUPERBASE PROF. III
SUPERPLAN
TAX BREAK
• THINKER
. TRANSCRIPT
WHO WHAT WHERE WHEN
WORD PERFECT
WORD PERFECT LIBRARY.
WORKS PALTINUM
ZING! SPELL
-
PROGRAMM
HTH ITIES

ING/ 64 EMULATOR 2

A-TALK PLUS .

. 64.95 179.00 . 84.95 191.95 . 57.95

	AC BASIC	34	1
	AC FORTRAN	99	
	AM KIT	25	3
•	AMI ALIGNMENT SYSTEM	32	į
	AMIEA DOS TOOLBOX	38	L
	ANTI-VIRUS		
	AREXX	32	
	ASSEMPRO		
	ATREDES (BBS)		
	AZTEC 68/AM-DEVELOPER 1		
	AZTEC C PROFESSIONAL 1		
	BAD DISK OPTIMIZER	32	1
	BBS PC	62	d
	BENCHMARK C LIBRARY		
	BENCHMARK IFF LIBRARY		
	BENCHMARK MODULA-2		
	BENCHMARK SIMPLE LIBR		
	CAPE 68K ASSEM 2 0		
	CB TREE PLUS		
	CLI MATE		
	CUSTOMS SCREENS		

WITH B.A.D ACCELERATOR SOFTWARE (up-to-500% SPEED INCREASE)!

TEATURES:

CSI 3200

Clickless

Small compact design

Metal case

Comparible with all Amiga computers

Low power consumption

Hinged dust cover

Drive disable switch

1-year warranty.

WHERE IN THE WI BUS PRODI ACCDUNTANT, 1 ANALYZE 2.0 ATALK III AWARD MAKER AWARD MAKER

AWARD MAKER BECKER TEXT .

BUDGETEER....
BUMPER STICKE
BUTTON & BADO

CELEBRITY COO

ALSO AVAILABLE:
CS1 2200 internal drive for Amiga 2000—100% compatible with same mechanism as Commodore 2010\$149.00

	CYGNUS ED PROF. 64 9 DEV DISK - ASSORTED. 79 DEVELOPERS TOULKIT. 39 DEVELOPERS TOULKIT. 39 DISK MAGIG ASSEMBLR 129 DISK MAGIG. 22 DISK MECHANIC, THE 55 DISK TO DISK. 34 9 DISK MICK 32 DISK MICK 33 DISK MICK 33 DISK MICK 34 DIS
36.95	CYGNUS ED PROF 64 9
THMETIC 45.96	DEV DISK - ASSORTED 7.9
E STATS 32.46	DEVELOPERS TOOLKIT 36 9
WHU INV 22.95	DEVPAC AMIGA ASSEMBLE 129 9
TITOR 1046	DISK MACIC 22.4
10101 2105	DISK MECHANIC THE 585
32 45	DISK TO DISK 34.9
	DISK WICK 32.4
INESS/	DISXMASTER 37.9
UCTIVITY	DOS LAB 16.2
HF 186 95	DOS TO DOS 37 9
93.73	DOUG'S MATH AQUARIUM 51 9
64.97	ENCORE 45 9
- EDUC 19.95	EXPRESS COPY
- SPORTS 19.95	EXTEND 25.9
PLUS 31.16	FACC II 21.9
93.73 - EDUC 19.95 - SPORTS 19.95 PLUS 31.16 - 99.95 MGMT 354.95 - 23.50 - 32.46	ENLUME
MGMT 354.95	CI7MO7 45.0
23.50	GOMF 3.0 27.9
32.46 R MAKER . 37.95 GE MAKER . 38.95 KBOOK . 22.95 SSERT . 9.95 RIFTY . 9.95	HISOFT BASIC PROFESSN 103 9
MAKEN 37.93	INOVATOOLS I 58.4
KROOK 22.05	JFORTH PROF 129.9
SSERT 9.95	KEY TO "C" 22.9
RIETY 9.95	LASER UP! PLOT 1 2 39 9
	NOVALOUS 58.4 FORTH PROF 128.9 KEY TO "C" 22.9 KASER UP! PLOT 1 2.7.9 LASER UP! PRINT 1 2.7.9 LASER UP! WITL VOL 31.9 LASER UP! WITL VOL 31.9 LATTICE "C" 5.0 SYSTEM 199.0 LATTICE C** - 299.9 LAZERSCRIPT 28.1 LINT 53.7
PROFESS 211 95	LASER UPI UTIL VOL 1 31 9
ETER 3.0 129.95	LATTICE C 5 0 SYSTEM 199 0
E BUSI 45.95	LATINE U++
E HOME 1 25 95	LINT 63.7
ET 45 95 ESETTER 22 95	LINT 63.7 LOGIC WORKS ADVANDED 189.9
ESETTEH 22.95	MAGELLAN 2.0 119.0
189.95 18 VER) 159.00	MARAUDER II 27.4
32.46	METACOMCO ASSEMBLER 68 9 METACOMCO SHELL 39 9 METACOMCO TOOLKIT 34 9 METASCOPE DEBUGGER 59 9
	METACOMCO SHELL 39.9
62.32	METACOMCO TOOLKIT 34.9
45.95	METASCOPE DEBUGGER 59.9
45.95 29.95	
/ANTAGE 64.95	MORE REASONS
ANTAGE 64.95	MORE REASONS
64.95	MHY YOU SHOULD
26.85 NERATOR 19.48 93.95 124.95 ER 69.95 ER PLUS 116.95	MORE REASONS WHY YOU SHOULD SHOP AT —
NEHATUH 19 48	
124.05	CREATIVE COMPUTERS
FR 69.95	1. OUR NEW MINI-COMPUTER
ER PLUS 116.95	ASSURES YOU:
37.95	 IMMEDIATE CUSTOMER
64.95	SERVICE AND ORDER
37 95 64 95 6ICAL 32.40 37 95 62 32	STATUS
37 95	 ADVANCED INVENTORY
62.32	CONTROL AND ORDERING
	MINIMIZING BACK OR-
ATTE 20 05	DERS AND DELAYS.
62 48 ATES 38.95 ISE V 1.2 229.00 IR 129.95	2. NOW WITH EVEN LARGER
R 129 95	FACILITIES AND TWICE THE
	STAFF.
	3. THE BEST AMIGA SERVICE
	CENTER ANYWHEREI
24.95	4. CALIFORNIA AND U.S.
UM 97.95	TOLL FORE OPDEDING
24 95 UM 97.95 ALYST 49.95	MULTI-PREFS 19.4 MURTI-PREFS 19.4 MURTI-PRINTER 29.9 NAG PLUS 30. 43.9 OIKLINE PLATINUM 64.9 OTG OSM. DISASSEMBLER 43.9 PCLO 199.9
146.95	MULTI-FORTH 59.9
. Su 78.21	MULTI-PREFS 19.4
93.73	MURAL PRINTER 29.9
15 II 34.46	NAG PLUS 3.0
99 05	ONLINE PLATINUM 54.9 OTG DSM - DISASSEMBLER 43.9 PCLO 199 9 PCLO+ PRNTD CURCUIT 399 9 PDWER WINDOWS 2 5 58.4
	DCIO 100 PDISASSEMBLER 43.9
38.95	PCI O+ PRINTIN CURCUIT 399 9
45.95	roco- rinaro concuit, 333.3

WHY YOU SHOULD SHOP AT — CREATIVE COMPUTERS

MULTI-FORTH	. 59.9
MULTI-PREFS	. 19.4
MURAL PRINTER	. 29.9
NAG PLUS 3.0	. 49.9
ONLINE PLATINUM	64.9
OTG DSM -DISASSEMBLER	43.9
PCL0	199.9
PCLO+ PRNTD CURCUIT	
POWER WINDOWS 25	. 58.4
PRINTMASTER	. 31.2
PRO BOARD	389.9
PRO NET	389.9
PROJECT D	. 31.9
QUARTERBACK	45.9
QUICK MERGE	
RAW COPY 1.3	. 38.9
SCHEME	. 199.9
SOURCE LEVEL DEBUGGER	49.9
SUPERBACK HD UTILITY	51.9
SYSTEMS MONITOR	28.9
T SHELL	28.9
TOOL CADDY	
TRUE BASIC DEV TOOLS	. 49.9
TURBO PRINT	32.9
TXED PLUS	51.9
ULTRA DOS	37.9
VIP VIRUS	
W SHELL	31.9
W SHELL	31.9
WBEXTRAS	21.9
WBEXTRAS	21.9
WBEXTRAS	21.9

1X4 OFF HUAD HA	L	н	N	u	ě.	٠		٠	34	.40
TH & INCHES CO	N	S	i	F	ł	N	C		. 9	95
TH AND INCHES									29	24
AAARGH!									23	95
ACTION FIGHTER		Ĺ							25	95
									-	

	AFTERBURNER	32.45
•	AIRBALL	25.95
	ALIEN SYNDROME	32 46
	ALTERNATE REALITY	27.95
	AMIGA KARATE	24 95
	ANDROMEDA MISSION	25 95
	ANNALS OF ROME	24 95
		31 25
	ARAZOK'S TOMBARCADE ACTION PACK	34 95
	ARCHON	13.97
		19 95
	ARKANOID	22 95
	AATHUA	32.45
•	AUNT-ARTIC	25.95
	AUTODUEL	
	BAAL	22 95
		30.25
	BALANCE OF POWER	19 90
	BALLIHO	27.47
	BALLISTYX	22.95
	BARBARIAN	25.95
	BARD'S TALE	35.95
	BARD'S TALE 2 HINT BK	10.50
	BARD'S TALE HINT DISK	13.95
	BARD'S TALE II	41.95
	BATMAN	
		29.95
	BATTLE CHESS	32.45
	BATTLE CHESS	32.46 38.95
	BATTLE CHESS	32.46 38.95 19.46
	BATTLE CHESS. BATTLE HAWKS BATTLE SHIP BATTLETECH	32.46 38.95 19.46 32.46
	BATTLE CHESS. BATTLE HAWKS BATTLE SHIP BATTLETECH BETTER DEAD T/ALIEN	32.46 38.95 19.46 32.46 21.95
	BATTLE CHESS. BATTLE HAWKS BATTLE SHIP BATTLETECH BETTER DEAD T/ALIEN BEYOND ZORK	32 46 38 95 19 46 32 46 21 95 33 76
	BATTLE CHESS. BATTLE HAWKS BATTLE SHIP BATTLETECH BETTER DEAD T/ALIEN BEYOND ZORK BIONIC COMMANDO	32 46 38 95 19 46 32 46 21 95 33 76 25 97
	BATTLE CHESS. BATTLE HAWKS BATTLE SHIP BATTLE SHIP BATTLETECH BETTER DEAD T/ALIEN BEYOND ZORK BIONIC COMMANDO BLACK CAULDRON	32 46 38 95 19 46 32 46 21 95 33 76 25 97 28 95
	BATTLE CHESS BATTLE HAWKS BATTLE HAWKS BATTLE THE BATTLETECH BETTER DEAD T/ALIEN BEYOND ZORK BIONIC COMMANDO BLACK CAULDRON BLACK JACK ACADEMY	32 46 38 95 19 46 32 46 21 95 33 76 25 97 28 95 29 95
	BATTLE CHESS. BATTLE SHIP BATTLE SHIP BATTLE SHIP BATTLE FECH BETTER DEAD T/ALIEN BEYOND ZORK BIONIC COMMANDO BLACK CAULDRON BLACK JACK ACADEMY BLACK LAMP	32 46 38 95 19 46 32 46 21 95 33 76 25 97 28 95 29 95 22 00
	BATTLE CHESS BATTLE HAWKS BATTLE SHIP BATTLEFECH BETTER DEAD T/ALIEN BEYOND ZORK BIONIC COMMANDO BLACK CAULDRON BLACK JACK ACADEMY BLACK LAUP BLACK LAUP BLACK JACK ACADEMY BLACK LAUP	32 46 38 95 19 46 32 46 21 95 33 76 25 97 28 95 29 95 22 00 22 95
	BATTLE CHESS. BATTLE HAWKS BATTLE SHIP BATTLETECH BETTER DEAD TALIEN BETYON ZORK BIONIC COMMANDO BLACK CAULDRON BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK SHADOW BLACK SHADOW BLACK SHADOW	32 46 38 95 19 46 32 46 21 95 33 76 25 97 28 95 22 00 22 95 38 95
	BATTLE CHESS. BATTLE SHIP BATTLE SHIP BATTLE SHOP BETTER DEAD T/ALIEN BEYOND ZORK BEYOND ZORK BIONIC COMMANDO BLACK CAULDRON BLACK LAUP BLACK LAMP BLACK LAMP BLACK SHADOW BLITZKRIEG (1 MEG VR). BLITZKRIEG 572 K	32 46 38 95 19 46 32 46 21 95 33 76 25 97 28 95 22 00 22 95 38 95 34 41
	BATTLE CHESS BATTLE SHIP BATTLE SHIP BATTLE SHIP BETTER DEAD T/ALIEN BETTER DEAD T/ALIEN BETOND ZORK BIONIC COMMANDO BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK SHADOW BLIACK JACK HOLDEN BLACK LANGE	32 46 38 95 19 46 32 46 21 95 33 76 25 97 28 95 22 90 22 95 38 95 34 41 32 46
	BATTLE CHESS BATTLE HAWKS BATTLE SHIP BATTLE SHIP BETTER DEAD T/ALIEN BETVEN DEAD T/ALIEN BETVOND ZORK BIONIC COMMANDO BLACK AJACK ACADEMY BLACK AJACK ACADEMY BLACK LANDOW BLACK LANDOW BLITZKRIEG 19 ME VR) BLITZKRIEG 19 ME VR) BLITZKRIEG 19 ME VR) BLOOM MONEY	32 46 38 95 19 46 32 46 21 95 33 76 25 97 28 95 22 00 22 95 38 95 34 41 32 46 25 95
	BATTLE CHESS BATTLE SHIP BATTLE SHIP BATTLETS HP BETTER DEAD T/ALIEN BETVEN DEAD T/ALIEN BETVOND ZORK BIONIC COMMANDO BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK SHADOW BLACK SHADOW BLITZKRIEG 19 MEG VR) BLOCKBUSTER BLOOD MONEY BOBO	32,46 38,95 19,46 32,46 21,95 33,76 25,97 28,95 22,00 22,95 38,95 34,41 32,46 25,95 23,36
	BATTLE CHESS BATTLE HAWKS BATTLE SHIP BATTLE SHIP BETTER DEAD T/ALIEN BETVEN DEAD T/ALIEN BETVOND ZORK BIONIC COMMANDO BLACK JACK ACADEMY BLACK SALUDADON BLACK JACK ACADEMY BLACK SALUDADON BLACK JACK WELVEN BLACK SALUD BLA	32.46 38.95 19.46 32.46 21.95 33.76 25.97 28.95 22.00 22.95 38.95 38.95 34.41 32.46 25.95 23.36 21.95
	BATTLE CHESS BATTLE SHIP BATTLE SHIP BATTLE SHIP BETTER DEAD T/ALIEN BETVEN DEAD T/ALIEN BETVEN DEAD T/ALIEN BETVOND ZORS BIONIC COMMANDO BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK LAMP BLACK SHADOW BLITZKRIEG 15 72 K BLOCK BUSTER BLOOD MONEY BOBO BOMB BUSTER BREACH	32.46 38.95 19.46 32.46 21.95 33.76 25.97 28.95 22.00 22.95 38.95 34.41 32.46 25.93 36.21,95 25.95
	BATTLE CHESS BATTLE CHESS BATTLE SHIP BATTLE SHIP BETTER DEAD T/ALIEN BETYOND ZORK BIONIC COMMANDO BLACK JACK ACADEMY BLACK SALUDRON BLACK JACK ACADEMY BLACK SANDOW BLACK SAN	32 46 38 95 19 46 32 46 21 95 33 76 25 97 22 95 38 95 22 00 22 95 38 95 34 41 32 46 25 93 36 21 95 25 95 16 95
	BATTLE CHESS BATTLE CHESS BATTLE SHIP BATTLE SHIP BETTER DEAD TALIEN BETTER DEAD TALIEN BETOND ZORE BIONIC COMMANDO BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK SHADOW BLITZKRIEG 11 MEG VR) BLITZKRIEG 157 K BLOCKBUSTER BLOOD MONEY BOOD MONEY BOOD BUSTER BREACH SCENARIO DISK BREACH SCENARIO DISK BREACH SCENARIO DISK BRIGGE 50 K	32.46 38.95 19.46 32.46 23.37 28.95 29.95 22.95 38.95 22.95 38.95 23.36 21.95 23.36 21.95 25.95 21.95 22.95 22.95 23.36 21.95 25.95 26.95 27.95 28.95
	BATTLE CHESS BATTLE CHESS BATTLE SHIP BATTLE SHIP BETTER DEAD T/ALIEN BETYOND ZORK BIONIC COMMANDO BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK SHADOW BLACK JACK ACADEMY BLACK SHADOW	32.46 38.95 19.46 32.46 21.95 33.76 25.97 28.95 22.00 22.95 38.95 22.00 22.95 38.41 32.46 25.95 23.36 21.95 25.95 25.95 25.95 25.95 26.95 27.95
	BATTLE CHESS BATTLE CHESS BATTLE SHIP BATTLE SHIP BETTER DEAD T/ALIEN BETYER DEAD T/ALIEN BETYOND ZORS BEYOND ZORS BEYOND ZORS BIONIC COMMANDO BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK LAMP BLACK JACK BLOOM BLACK JACK BLOOM BLACK JACK BLOOM BLACK BLOOM BLACK BLOOM BLOOM BLOOM BLOOM BLOOM BEACH BREACH SCENARIO DISK BRIGGE 50 BUBBLE BOBBLE BUBBLE BOBBLE BUBBLE BOBBLE	32.46 38.95 19.46 32.46 32.76 25.97 28.95 29.95 22.95 38.95 34.41 32.46 25.95 23.36 21.95 23.36 21.95 24.10 24.10 25.95 24.10 25.95 24.10 25.95 26.95 27.10
	BATTLE CHESS BATTLE CHESS BATTLE SHIP BATTLE SHIP BETTER DEAD T/ALIEN BETYER DEAD T/ALIEN BETYOND ZORS BEYOND ZORS BEYOND ZORS BIONIC COMMANDO BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK LAMP BLACK JACK BLOOM BLACK JACK BLOOM BLACK JACK BLOOM BLACK BLOOM BLACK BLOOM BLOOM BLOOM BLOOM BLOOM BEACH BREACH SCENARIO DISK BRIGGE 50 BUBBLE BOBBLE BUBBLE BOBBLE BUBBLE BOBBLE	32.46 38.95 19.46 32.46 32.76 25.97 28.95 29.95 22.95 38.95 34.41 32.46 25.95 23.36 21.95 23.36 21.95 24.10 24.10 25.95 24.10 25.95 24.10 25.95 26.95 27.10
	BATTLE CHESS BATTLE CHESS BATTLE SHIP BATTLE SHIP BETTER DEAD TALLEN BETTER DEAD TALLEN BETTER DEAD TALLEN BETOND ZORE BIONIC COMMANDO BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK SHADOW BLACK SHADOW BLITZKRIEG 11 MEG VR) BLITZKRIEG 15 TZ BLOCK BUSTER BLOOD MONEY BOOD MONEY BOOD BUSTER BREACH SCENARIO DISK BRIGGE 50 G BUBBLE BOBBLE BUSTER BUSTER BREACH BREACH SCENARIO DISK BRIGGE 50 G BUBBLE BOBBLE BUSTER BUSTER BUSTER BREACH BUSTER BREACH BREACH BREACH BREACH BUSTER BREACH BREACH BREACH BUSTER BREACH BR	32.46 38.95 19.46 21.95 33.76 25.97 28.95 22.00 22.95 22.00 22.95 23.36 25.95 22.00 22.95 23.36 25.95 24.10 22.95 24.10 22.95 24.10 22.95 24.10 25.95 26.95 27.95
	BATTLE CHESS BATTLE CHESS BATTLE SHIP BATTLE SHIP BETTER DEAD T/ALIEN BETYON ZORK BIONIC COMMANDO BLACK JACK ACADEMY BLACK CAULDRON BLACK JACK ACADEMY BLACK SHADOW BLACK SHAD	32.46 38.95 39.46 39.46 30.46
	BATTLE CHESS BATTLE CHESS BATTLE SHIP BATTLE SHIP BETTER DEAD TALLEN BETTER DEAD TALLEN BETTER DEAD TALLEN BETOND ZORE BIONIC COMMANDO BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK SHADOW BLACK SHADOW BLITZKRIEG 11 MEG VR) BLITZKRIEG 15 TZ BLOCK BUSTER BLOOD MONEY BOOD MONEY BOOD BUSTER BREACH SCENARIO DISK BRIGGE 50 G BUBBLE BOBBLE BUSTER BUSTER BREACH BREACH SCENARIO DISK BRIGGE 50 G BUBBLE BOBBLE BUSTER BUSTER BUSTER BREACH BUSTER BREACH BREACH BREACH BREACH BUSTER BREACH BREACH BREACH BUSTER BREACH BR	32.46 38.95 19.46 21.95 33.76 25.97 28.95 22.00 22.95 22.00 22.95 23.36 25.95 22.00 22.95 23.36 25.95 24.10 22.95 24.10 22.95 24.10 22.95 24.10 25.95 26.95 27.95

### 14	ELIMINATOR - LITE - EMETIC SKIMMER EMPIRE - EMPIRE STRIKES BACK - ENIGMA DEVICE - ENLIGHTENMENT - EVIL GARDEN - EXTENSOR - 149 PURSUIT - FARTYALE AUVENTURE - FARTYALE GUIDEBOOK - FALCON - 1AST BEEN - FERRARI FORMULA ONE - FINAL ASSAULT - LITERA SSAULT - SUMMATOR - EMPIREMENT - FERRARI FORMULA ONE - FINAL ASSAULT - EMPIREMENT - FERRARI FORMULA ONE - FINAL ASSAULT - EMPIREMENT - FERRARI FORMULA ONE - FINAL ASSAULT - EMPIREMENT - FERRARI FORMULA ONE - FINAL ASSAULT - FINAL ASS
Kingdoms of England 24,95 Call. Games 29,95 Grend Prix Circuit 29,95 I Ludicrus 19,95 Prospector 29,95 Molor Massacre 24,95 Lords of the Rising Sun 29,95 Prof. Techniques for D'aint Ill (VMS Tape) 24,95 Step-by-step guide to D'aint Il leatures including cel animation, 30 perspectives, etc.	FINAL MISSION FIRE 'N FORGET FIRE-BRIGADE FIRE-BRIGADE FIREPOWER FIREZONE FISH FLIGHT SIMULATOR II FOOTMAN FOUNDATIONS WASTE FRIGHT MIGHT FROSTBYTE FUED GALACTIC CONOUERER GALACTIC INVISION
ARRIER COMMAND. 30 95 ASINO FEVER. 25 95 ENTERFOLD SQUARES. 19 95 ENTERFOLD SQUARES. 19 95 ENTERFOLD SQUARES. 27 46 HARDION.51 95 ENTERFOLD SQUARES. 27 46 HARDON 5 25 96 ENTERFOLD SQUARES. 27 45 ENTERFOLD SQUARES. 27 45 ENTERFOLD SQUARES. 27 45 ENTERFOLD SQUARES. 27 95 ENTERFOLD SQUARES. 27	GALAXY FIGHT GAMMES WINTER EDITION GAMYMED GAMYMED GAMINTER II GEE BEE AIR RALLY GETTYSBURG TURN POINT GIGANOID GLOBAL COMMANDER GOLD RUSH GOLD RUSH GOLDEN PATH GOLDBURKER II GRAND SLAM TENNIS GRETZKY HOCKEY GRID STAM GRIDDROW WITEAM DISK GRUDDROW WITEAM GRIDDROW WITEAM GRIDDROW WITEAM GRUDDROW WITEAM GRUDDROW WITEAM GRID GRAND GRID



BYTE BY BYTE DISTRIBUTED BY CENTAUR SOFTWARE SCULPT 3DXL Create and render ray-trace objects with the speed and power of 4D. SCULPT ANIMATE 4D JR. Create, render and animate solid objects with the same easy-to-use interface as 4D (no ray-tracing). SCULPT ANIMATE 4D \$350 SCULPT-ANIMATE 4D----The most sophisticated and powerful 3D animation and ray-tracing software avail-able on ANY PERSONAL COMPUTER! AND—IT'S ALSO THE EASIEST TO USE!

DESTROYER
DETANATOR
DISTANT ARMIES ...
DOMINDES

DREAM ZONE
DUNGEON MASTER
DUNGEON MSTR HINTDISK
DUNGEON QUEST
EARL WEAVER BASEBALL

EARL WEAVER COMM. DISK EARL WEAVER STATS ... EBON STAR... ELIMINATOR...

COMPUTER! AND—IT'S ALSO THE EASIEST TO USE! CREATIVE COMPUTER' EXCLUSIVE UPGRADE POLICY: You can upgrade your 3DXL or 4D Jr. to 4D directly from Creative Co 3DXL master disk + *290 c	\$ <u>\$</u>	PLUTOS POKER: POLICE POUCH POWER: PRESIDI PRIME 1 PRISON PRO SOC PURPLE QUADRA QUESTR
ESTROYER 25.95	HIGHWAY HAWKS 22.95	QUINTE
ETANATOR 25 97	HIGHWAY HAWKS 22.95 HKM 22.95	RAMPA
ISTANT ARMIES 29 95	HOLE IN ONE	REAL GI
OMINOES	HOLE IN ONE COURSE #3 11.95	REALM
OUBLE DRAGON 27.95	HOLLYWOOD POKER 25 95	REALM
RAGON'S LAIR	HOSTAGE	REBEL C
REAM ZONE	HUNT FOR RED OCTOBER 34 95	REEL FI
UNGEON MASTER 32.46	HYBRIS	RENEGA
UNGEON MSTR HINTDISK 12.95	HYPERDOME 22.95	RETURN
UNGEON QUEST 32.46	IMPOSSIBLE MISSION II 32.46	RETURN
ARL WEAVER BASEBALL 34.95	INDIANNA JONES 25.95	ROAD R
ARL WEAVER COMM DISK 14.95	INDOOR SPORTS	ROADW
ARL WEAVER STATS 12.95	INSANITY FIGHT 25 96	ROADW
BON STAR 25 96	INTERCEPTOR 37.95	ROBBEA
LIMINATOR 25.95	INTERNATIONAL SOCCER 25.96	ROCKET
LITE 32.46 METIC SKIMMER 25.96	INTO THE EAGLE'S NEST 28.56	ROCKFO
METIC SKIMMER 25.96	A 140Y MICKLAND COLD 32.46	ROMAN

PAWN, THE	· TALESPIN
PHANTASIE 27.47	TANGLEWOOD
HANTASIE 3 24.95	. TANK ATTACK
HANTASM 22.95	TARGIS 28
K PANTHER 28.56	TECHNOCOP 32
ONEER PLAGUE 25.96	TEENAGE QUEEN
ATOON	TELEEPIC 25
LUTOS 19.48	TELEGAMES 23
OKER SOLITAIRE 22.95	TELEWARS II
OLICE QUEST 32.46	TERRORPODS 25
OPULOUS 34.95	TEST DRIVE 34
OWERSTYX 22.95	TESTORIVE II 29
RESIDENT IS MISSING 25.95	TETRA QUEST25
RIME TIME	TETRIS 21
RISON	THE DEEP
RO SOCCER 29.95	THEXDER
URPLE SATURN DAY 32.46	THREE STOOGES
UADRALIEN	THUNDER BLADE
JESTRON II	THUNDERBOY2
UINTETTES 29.95	TIGER ROAD2
AMBO III	TIME & MAGIC
AMPAGE 25.95	TIME BANDITS
EAL GHOSTBUSTERS, TH 32.46	TITAN
EALM OF THE TROLLS 32.46	TOTAL ECLIPSE 2
EALM OF THE WARLOCK 22.74	TOWER TOPPLER
EBEL CHARGE AT CHK 39.95	TRACERS
EEL FISHIN'	TRANSPUTOR
ENEGADE 22.96	TRIANGO2
ETURN TO ATLANTIS 34.95	TRINITY2
ETURN TO GENESIS 22.95	TRIPLEX
OAD RAIDERS	TRUMP CASTLE
OADWAR 2000	ULTIMA III
OADWAR EUROPA 29.95	ULTIMA III
OBBEARY 16.21	UMS CIVIL WAR DATADSK 1
ROCKET RANGER 32.46	UMS VIETNAM DATADSK 1
OCKFORD 23.95	UNINVITED
ROMANTIC ENCOUNTER 25.95	UNIVERSAL MILITARY SM 3
	VAMPIRE'S EMPIRE 2
UNNINS MAN	VIDEO VEGAS
SARGON III	
AVAGE	VINDICATORS
SCARY MUTANT ALIENS 25.95	VIRUS (GAME)
SCENERY DISK # 9 19.95	VORTEX

MORE CREATIVE PROMOTIONS!

#AMIGA LIVE! 2000 \$349.00 #51ICKER FIXER \$479.00

(Eliminate all flicker and scanline gaps 100%

(For A2000—Expandable to 8 MB)

2 MB RAM CARD



JACK HICKLAUS GOLF
JET

JINKS
JINKTER
JOE BLADE
JOKER POKER

NEW-PROFESSIONAL PAGE 1.3

A special limited time offer exclusively from CREATIVE COMPUTERS

For a limited time only, Pagestream owners can upgrade to the best in DTP software from Gold Disk at the very special price of \$150!!!

Version 1.3 now offers outline font technology giving you results close to Post-script quality from almost any printer (in addition to standard Postscript)! The new AGFA/Compugraphic font technology gives

you access to the world's largest supplier of fonts.

Call toll-free now to take advantage of this great offer for only \$150. Do it now before stock runs out—this offer is too good to miss and CREATIVE COMPUTERS IS THE ONLY DEALER OFFERING IT!

JOURNEY 32.46	SCENERY DISK #11 18.72	VYPER
JUG 25.95	SCENERY DISK #7 18.71	• WANDERER
KAMPFGRUPPE 41.95	SCENERY DISK W EUROPE 19.95	WAR IN MIDDLE EARTH 36.99
KARATE KID II 25.95	SCENERY DISK, EUROPE 17.95	WARLOCK 22.71
KARATE KING 15.95	SCENERY DISK, JAPAN 19.95	WESTERN GAMES 31.95
KARTING GRAND PRIX 17.95	SCORPION	WHO FRAMED ROGER RABB 29.97
KENNEDY APPROACH 29.95	SCRABBLE 27.46	WILLOW 25.95
KIKSTART 2 14.95	SDI - CINIMAWARE GAME 34.95	WINTER CHALLENGE 19.95
KIKUGI	SECRETS DUNGEON MASTR 9.95	WINTER GAME 27.46
KING OF CHICAGO 34 95	SEX VIXENS FROM SPACE 25 95	WORLD CLASS GOLF 25.97
KING'S QUEST I 32 95	SHADOW GATE	WORLD GAMES 27.46
KING'S QUEST II 32 95	SHANGHAI 27.46	WORLD SNOOKER & OTHER 19.95
KINGS QUEST 3 HNT DSK 12.95	SHERLOCK 27.00	WORLD TOUR GOLF 27.45
KINGS QUEST III	SHOGUN	• WRANGLER 19.95
KNIGHT ORC 30 95	SILENT SERVICE 25.95	ZAK MCKRACKEN 29.95
• KRISTAL 32.45	• SIMCITY	ZANY GOLF
LANCELOT 27.95	SINBAD & THE SWORD 29.95	ZERO GRAVITY
LAST DUEL 22 95	SKY BLASTER	ZOOM
LAST INCA	SKY CHASE	ZORK TRILOGY 47.95
LEADERBOARD COURSES 1 14 95	SKYF0X II 27.46	ZORK ZERO
LEADERBOARD DUAL PACK 22.72	SLIP STREAM	ZYNAPS
LEADERBOARD GOLF GAME 27 00	SNAKE PIT	ZIMAF323.93
LEADERBOARD TORN, DSK 13.95	SOLITAIRE ROYAL 22.71	ACCESSORIES
LEATHERNECK	SORCERER LORD 23 95	ALLSOP DISKFILE/80 14.95
LEISURE S.LRY HNT DSK 12 95	SPACE CUTTER 19.95	AMIGA ATHLETIC BAG 24.95
LEISURE SUIT LARRY 25 95	SPACE HARRIER	AMIGA BIC LIGHTER 1.95
LIBHT FORCE 25.95	SPACE QUEST	AMIGA BRASS KEY RING 3.95
LOMBARD RALLY 25 95	SPACE QUEST II	AMIGA CORDUROY CAP 7.95
MAJOR MOTION 25.96	SPACE RACER 19.46	AMIGA GARMET BAG 34 95
MAN HUNTER - NEW YORK 32 46	SPACE SCHOOL SIM 22.95	AMIGA GOLF SHIRT 19.95
MANIAX 16.95	SPACESTATION OBLIVION 32 46	AMIGA GOLF SHIRI 39.50
MARBLE MADNESS 33.00	SPEEDBALL	AMIGA LOGO NOTE PAD! 4 99
MASTER NINJA. 30 95	SPIN WORLD 25.95	AMISA MUS 5.78
MEAN 18 COURSE DISK 2 14 95	SPITTING IMAGE	AMIGA PEN & PENCIL 19.95
MEAN 18 GOLF 28 95	STAR WARS	AMIGA PLASTIC VISOR 1.95
MENACE 19 98	STARFLEET 1	AMIGA SWEATSHIRT 14.95
MICKEY MOUSE 25.95	STARGLIDER	AMIGA T-SHIRT 7.95
MIGHTY NERD 32 46	STARGLIDER II	AMIGA TERRY VISOR 5.50
MIKE THE MAGIC DRAGON 16 95	STARGOOSE	AMIGA TIE PINS 4 95
MIND ROLL 19 95	STARRAY 19.95	AMIGA TOWEL
MISSION CON-BAT 31 16	STELLAR CONFLICT 28.95	AMIGA TWILL CAP 7.95
MISSION ELEVATOR 34 95	STELLARX 25.95	CABLES (nearly all types
MOEBIUS 25 95	STOCK MARKET-THE GAME 16.95	available including custom
MOUSE QUEST 14 95	STREET CAT	cables)
NINJA MISSION 30 95	STREETSPORTS BASKETBL 13.95	CARRY BAG FOR A1000 59 95
OBLITERATOR	STRIP POKER DATA #4 12.95	CARRY BAG FOR A500 52.95
OFFSHORE WARRIOR 25.96	STRIP POKER DATA #5 12.95	CARRY BAG FOR MONITOR 45.95
OGRE	STRIP POKER II 25.95	CLEANING KIT LARGE 14.95
ONE ON ONE 14.95	SUB BATTLE 24.95	CLEANING KIT SMALL 7.95
OPER CLEAN STREETS 25.95	SUMMER CHALLENGE 19.95	CLEANING KIT SUNCOM 6 95
OPERATION NEPTUNE 32.46	SUPER 6 29.95	CONTROL CENTRE A500 71.95
OPERATION WOLF 22.95	SUPER CARS	COPY/CAMERA STAND 64.95
OUT RUN 32.46	SUPER HANG-ON	CPS 500 POWER SUPLY 74 95
P.O.W	SUPERIOR GOLF KIT	CURTIS DISK FILE 30 7 95
PACMANIA	• SUPERMAN	CURTIS DISK FILE 40 8 95
PALADIN	SUPERSTAR ICE HOCKEY 32.46	CURTIS DISK FILE 80 14.95
PALADIN - QUEST DSK 1 16.86	SWORDS OF SODAN 32.46	DESKJET BLK CARTRIDGE 15.95
	5.10.100 St. 500/11	VEGRACI BEN GANTRIDGE 13.93

			95
DESKJET	DUST COVER	29	95
DESKJET	EPSON FX EMUL	62	95
DESKJET	HELV 8 &10 PT	79	95
DESKJET	HELV ASCII 1	04	95
DESKJET	PRESTIGE ELT	79	95
DESKJET	STAND/ORGNZR	84	95
	DESKJET DESKJET DESKJET DESKJET	DESKJET EPSON FX EMUL DESKJET HELV 8 & 10 PT DESKJET HELV ASCII DESKJET PRESTIGE ELT	DESKJET EPSON FX EMUL 62 DESKJET HELV 8 &10 PT 79

ASDG DUAL SERIAL BOARD \$199

FEATURES: 2 high-speed RS232 serial ports for the Amiga 2000. IBM PC AT style (9-pin) connector for each port. Transfer from 50 to 76,000 BAUD. Complete with Amiga software & full documentation.

DESKJET TMS/RMN 8 &10 . . . 79.95

.95 .46

DIGI-DROID	
. DISKETTES, 50 PACK	64.95
DUAL GUN ADAPTER	24.95
DUAL JOYSTICK ADAPTOR.	10.95
DUST COVER A1000 &MON	13.95
DUST COVER A2000 &MON	11.95
DUST COVER A500 CPU	8.95
. EASYL DISK FOLDER	14.95
EPYX 200XJ JOYSTICK	11.95
EPYX 500XJ JOYSTICK	14.95
ERGO STICK	17.95
FLICKER MASTER	13.95
FLOPPY WALLET	7.95
FOUR PLAYER ADAPTER	11.95
FUJI DISKETTES	19.95
GAME PLAY COMPACT DSK	12.95

KALIMAR TEAK 135 DISK	
KALIMAR TEAK 60 DISK	. 24.95
KEYBOARD SKIN A1000 KEYBOARD SKIN A2000	. 19.95
KEYBOARD SKIN A2000	
KRAFT ACE JOYSTICK	
KRAFT MAZEMASTER JSTK.	9 95
LASERJET DUST COVER	. 29.95
LASERJET-2 COURIER LASERJET-2 TONER CRTG LIGHT GUN, PHASAR	144.50
LASERJET-2 TONER CRTG	104.95
LIGHT GUN, PHASAR	. 48.95
MICHTRON DISK FOLDER	149.95
MICRO 50 DISK FILE	8 05
MONITOR STAND & DRAWR	59 95
MOUSE COVER W/GLASSES	5.95
MOUSE COVER W/GLASSES MOUSE MASTER	. 29.95
MOUSE MATS	6.95
MY T MOUSE. PAINTJET BLK CARTRIDG	. 59.95
PAINTJET BLK CARTRIDG	. 23.60
PAINTJET COLOR CRTRDG PAINTJET CUT PAPER	. 29.10
PAINTJET DUST COVER	10.05
PAINTJET PAPER CATCH	23.95
PAINTJET PRINTR STAND	. 66.95
PAINTJET TRANS FILM	. 54.05
PAINTJET Z-FOLD PAPER	
POWER STRIP, INTEREX POWERPLAYERS JOYSTICK	19.95
POWERPLAYERS JOYSTICK	19.95
PRINT & WEAR	12.05
SONY COLOR DISKETTES	
SONY DISK 10 PACK	20.95
. SONY DISK 15 PACK	
. STAR CURSOR JOYSTICK	32,46
STAR NX-1000 RIBBON	6.95
STAR RAINBOW RIBBON	
· SWITCH BOX AB	34.95
TAC-2 JOYSTICK TEAK-TECH 120	. 10.95
TEAK-TECH 60	
TRACKRALL MOUSE STYLE	39.95
TRACKBALL MOUSE STYLE WICO 3-WAY JOYSTICK	. 25.95
WINNER JOYSTICK	. 14.95
XEROX 4020 4 PACK INK	. 19.95
XEROX 4020 MAINT INK	. 19.95
BOOKS/	

JOYSTICK Y ADAPTER 10.95

MAGAZINES/ VIDEO TAPES COMPLETE SELECTION OF AMIGA TITLES

FREE SHIPPING!

CREATIVE COMPUTERS is both a mail order company with a store's support and three store showrooms with mail order prices. Visit one of our showrooms today, You'll be amazed!

3 RETAIL SHOWROOM LOCATIONS TO SERVE YOU SANTA MONICA & WESTSIDE: 318 Wilshire Blvd., Santa Monica, CA 90401. Tues.-Sat. 11-7 p.m./Sun. 11-5 p.m./Phone: 213-394-7779

LAWNDALE & SOUTH BAY: 4453 Redondo Beach Blvd., Lawndale, CA 90260. Mon.-Sat. 11-7 p.m./Phone: 213-542-2292

VENTURA, OXNARD & SANTA BARBARA: 2112 E. Thompson Dr., Ventura, CA 93001. Tues.-Sat. 11-7 p.m./Sun. 12-5 p.m./Phone: 805-652-0325

 The CREATIVE COMPUTES ADVANTAGE:
 The largest dealer of Amiga products in the World
 Three store locations means excellent support
 Amiga-specific—unlike the competition, we don't
 claim being Amiga specific while selling other
 bronds under another business name Best service center

Uniform low pricing and largest selection, no hid-den costs or catches

We don't charge your card until the product ships

CUSTOMER SERVICE: For technical support call 213-542-2292 from 11 a.m. to 7 p.m. PST for technical









SHIPPING INFO: No surcharge for Visa/MasterCard; 4 % surcharge for American Express; 1 % surcharge for Discover. Shipping within the continental United States for software orders over \$100 (U.S.) is FREE. Please call for all other shipping information. Educational, corporate and aerospace purchase orders over accepted.

accepted.

RETURN POLICY: Call Customer Service at (213) 5422292 for return authorization. All returns without authorization number (RMA#) will be refused. Returned products must be in original condition and packaging and must be sent back within 30 days of our invoice date. No refund on defective products or products that do not perform satisfactorily. We make no guarantees for product performance.

CONDITIONS: Creative Computers reserves the right to limit the sales of any items to local in-person pick-up only. Prices and availability subject to change without notice.

CREATIVE COMPUTERS IS INTERNATIONAL!

CREATIVE COMPUTERS IS INTERNATIONAL!

INTERNATIONAL TOLL-REE GORERING POLICIES: Minimum order \$100 U.S. Orders only please. Absolutely no product inquiries, or any shipping inquiries, will be taken over the toll-free phone lines. For any other information, please call (213, 542-2292. We have operators versed in the following languages: English, French, and Spanish, only. Shipping prices vary and are quoted following your order. Payment is made via credit card or electronic fund transfer. For any other information please call our regular toll lines. Federal Express and International Shipping available.

HITERNATIONAL PHONE NUMBERS: Canada 1-800-548-

Federal Express and International Shipping available. INTERNATIONAL PHONE NUMBERS; Canada 1-800-548-2512; Italy 1678-74086; United Kingdom 0800-89-1178; France 19-0590-1099; W. Germany 01-30-810466; Japan 0031-11-1351; Australia 0014-800-125-712; Netherlands 06-022-8613; Norway 050-12029; Denmark 0434-0297; Switzerland 046-05-3420.



A Monochromatic Approach

9

A continuing series
of tips, techniques,
and tricks for
creating more
imaginative Amiga

graphics.

By Joel Hagen

ALTHOUGH THE AMIGA is capable of displaying 4096 colors, only 16 value levels of a given color are possible. I have always enjoyed painting in the 16 grayscale colors for the special quality of depth and dimension one gets from a monochromatic palette. Recently, however, I have been exploring techniques that retain that feel, but stretch the apparent value scale to the full 32 colors available in DeluxePaint.

If you view the palette of a 32-color image captured with NewTek's Digi-View (or most other digitizers), you will find the colors arranged in ascending order. Digi-View actually makes palette position 0 the darkest color, and position 1 the lightest color for menu readability, with the remaining 30 colors in a smooth sequence from dark to light. Even though adjacent colors may share the same "V" value level, one or two of the "RGB" levels will be different, creating a logical value differentiation. The result is a 32-level palette—the foundation of the techniques that follow.

CREATING THE PALETTE

It is possible to create such a 32-level palette from scratch using the tools in the Palette requester, but in this case I prefer to create a digitized palette. Soft, neutral colors can be elusive to build, and the visual context of adjacent colors makes objectivity challenging. For this technique, you create a palette with the objects you select for the camera. Avoid bright colors, or a broad spectrum; the point is to limit color and seek a smooth Range of values. Using such objects as shells, stones, pieces of wood, bones, and the like should yield excellent results. The palette in the accompanying illustration, "Biomech," is the product of digitizing a piece of notebook paper lying on dark wood. The incidental colors in the

value scale add vitality to the final painting while retaining an overall monochromatic tone.

I recommend working in 320 × 400 screen format, lo-res interlace. For convenience, I leave colors 0 and 1 for my menu colors, adjusting color 1 down the value scale to a soft amber to reduce interlace flicker. The remaining 30 colors are the painting palette. Set all Ranges but one in the palette requester to color 0 by clicking color 0, then Range, then color 0 again. Make the last Range the 30-color painting palette. With the mouse, make the background color the darkest color (color 2) and the foreground color any intermediate color. In the menu, set Prefs to Fast FB and Be Square. I toggle the cursor off with the Delete key, preferring to just look at my brush. Shift-K clears the screen to the background color, and F10 removes the menus. F5 will then put you in Shade, the primary mode for all painting that employs this monochromatic technique.

In Shade mode, tools respond only to those colors within a defined Range. One button lightens colors step by step through the other colors in that Range, while the other button darkens them in the same fashion. With the entire painting palette as a Range, your brush becomes a unique tool. One finger lightens as you move, the other darkens. The method is analogous to a favorite drawing technique of mine in which you rub graphite powder onto paper with soft leather to create shadow areas, then cut highlights back in with a kneaded eraser.

I began painting the alien skull in "Biomech" with a two-inch round brush.

By mastering this group of subtle techniques, you can extend that unique feel of monochromatic painting to the full 32 colors available in your paint program.

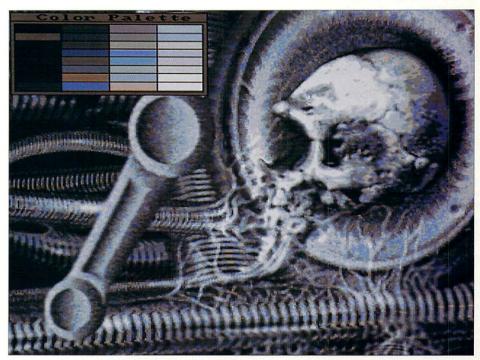
Working quickly and spontaneously, I lightened large areas, then carved them back by darkening to the background. You will come not only to accept, but also welcome the accidents and unpredictable shapes that emerge. The painting becomes a compromise between serendipity and control. In the early stages of the painting, I yield willingly to whatever character the medium itself has to offer. As the painting progresses, I exert tighter and tighter control to add the necessary definition to the image.

Having roughed out the skull, I used the "-" key to reduce the brush size as needed, working increasingly finer detail into the image, shifting rapidly between light and dark. Final details in the suture lines were done with a single-pixel brush, still in Shade mode. Shift-J copied the skull to the spare screen. I cleared the screen and began the background.

BACKGROUND AND FOREGROUND

Clicking any line tool with the right button brings up the spacing requester. I clicked Every Nth Dot, and returned to the screen to begin the large circular form. Using the unfilled circle tool in the Shade mode, I produced a disk of kaleidoscopic patterns with my two-inch brush. Still using the circle tool, but bouncing back and forth in the spacing requester between Every Nth Dot and Continuous, I highlighted the shape with a smaller brush, shaded it with another, then used Smear in the Nth Dot mode to add a ribbed texture.

The spring-like shapes were made with a quarter-inch round brush and straight-line tool, using Every Nth Dot,



"Biomech" (above) shows the extra warmth and vitality possible with a 32-level palette, while still retaining an overall monochromatic tone. (Note the colors in the palette, as reproduced in the inset, upper left.)

in Color mode (F2). By drawing a line I was able to lay down a series of quarter-inch dots. I picked up the whole line of dots as a brush and then returned to Shade mode and the curve tool (q). I drew a short curved line, and the row of dots made the entire spring. This was picked up and shrunk, and then Sheared, Rotated, and Bent, all from the Brush menu. I used it many times, overlaying it upon itself to create the background. After I placed the skull into the image, I used Blend and Smooth with small brushes to help soften edges and eliminate the "cut-out" look.

The mechanical foreground object was created with the filled-circle and polygon tools. I used the Horizontal Line gra-

dient fill with dither control set all the way to 15. After the first shape was drawn, I returned to the Palette requester and flipped the Cycle Direction arrow. This reversed the direction of the gradient fill, so that a second shape drawn within the first one created the concave illusion. Using Shade mode, I added dents, cracks, and other details as final touches.

Joel Hagen's credits include work in art, astronomy, science fiction, and software development. Write to him at 10512 Sawyer, Oakdale, CA 95361. Please include a stamped, self-addressed envelope.

Mystery Sweeps Winners and Prizes

If you read last month's issue, you now know the solution to "Murder at Saratoga" and the names of our 12 Finalist Prize winners. This month we award Consolation Prizes to some of our many, many readers who participated in the Mystery Sweeps.

As all of the people who submitted entirely correct solutions to the mystery received Finalist Prizes, our consolation winners were drawn from the next closest solutions.

First preference was given to entries identifying the correct victim (Syl Vestry) and Buford Langtry (the next most likely choice) as the murderer. Second preference was accorded to entries specifying the correct victim but a murderer other than Davis Longfellow or Buford Langtry (although there were two consolation winners who identified the correct murderer, Longfellow, but the wrong victim). Remaining consolation winners were chosen from otherwise correct entries that listed Jimmy "The Satchel" Mikaros as the victim (a common mistake of many contestants who correctly solved all but the very last clue in Part I).

As you can see from the list below, we were able to award a significant number of Consolation Prizes. We were pleased to acknowledge at least some of the many people who spent a considerable amount of time following our mystery throughout the summer. We are extremely grateful to the sponsors-the many developers of fine Amiga products, whose names appear next to the prizes they donated-who made the

We thank all of you who participated and we hope those who didn't succeed this year will come back winners next year. And be assured, we will endeavor to make our 1990 contest-whatever the theme will be-match the challenge of the 1988 Treasure Hunt and this year's Mystery Sweeps.

Finalist Prize Sponsors

Before listing the Consolation Prize Winners, we would like to acknowledge the sponsors of our top 12 prizes, the winners of which were announced in last month's issue.

Grand Prize: GO AMIGO! of Redwood City, CA First Runner-Up Prize: LIGHTSPEED Distribution of Portland, OR

Second Runner-Up Prize: The Software Shop of Worcester, MA

Finalist Prizes (Fourth through Twelfth):

Anakin Research

Antic Software

Cape Fear Teleproductions

Communications Specialties

DigiTek Software

Dr. T's Music Software

Electronic Arts

Hammond Photographic Services

Magnetic Images Co.

MicroWay Inc.

Oxxi Inc.

Precision Inc.

Psygnosis Ltd.

ReadySoft Inc. Software Visions Inc.

Spectrum HoloByte

Strategic Simulations

Supra Corp.

Taito Software

Consolation Prize Winners

Complete Abacus Amiga Library-John Orwig, Columbus, OH; Photon Paint (Microlllusions)-Lewis Hatch, Los Lumas, NM; SupraModem 2400 (Supra)-Tony McLaughlin, Stittsville, Ontario, David Hahne, Newport News, VA; Clip Art Disks (Magentic Images)-Ken England, Hammonton, NJ; Falcon (Spectrum HoloByte) - Sylvia Bennett, Tampa, FL; Tetris (Spectrum HoloByte) - Debbe Loebrich, Maumce, OH.

Superbase Pro 3 (Precision)-Stephanie Bartz,

South River, NJ, Jesse Smith, Arlington, TX, Brent Hunter, Salt Lake City, UT, Hector Gutierrez, Lindavista, Mexico, Brad King, Hayesville, NC, Jeffrey McHarg, Acton, MA; Superbase Personal 2 (Precision) - Jonas Winfield, Augusta, ME, Jean Augsburger, Ellicott City, MD, Arthur Entlich, Bergenfield, NJ, Billy Ray Justice, Sumter, SC, Ken Smith, Charlottesville, VA; SuperPlan (Precision)-Dennis FitzGibbon, South Haven, MI, Jacob Fetsch, Schererville, IN, Dewilton Haslup, Arlington Heights, IL, L. Crawford, Harrisonburg, VA, Linda Adams, Highland Heights, OH.

PageStream (SoftLogic) - Jack Lehman, Mount Airy, MD; Pioneer Plague (Antic)-Melinda Matheny, Charlottesville, VA: Crash Garrett (Antic)-Chris Adamo, Schererville, IN, Joseph Rattz, Sumter, SC; Stir Crazy (Antic) - John Manley, Cheshire, CT; Fire Power (Microlllusions)-Marian Monwai, Seattle, WA: Faery Tale Adventure (Microlllusions) -Charles Wall, San Lorenzo, CA; Skyfox (Electronic Arts) - Daniel Feyma, Brooklyn Park, MN.

Dragon's Lair (ReadySoft)-Harry Bratt, Mt. View, CA, Jim McCoid, Papillion, NE, Jose Dieppa, Homestead AFB, FL, Blyden Potts, Oxford, NY, John Klovstad, Whitefish, MT; Cosmic Bouncer (ReadySoft)-James Funk, Denver, CO, Katie Meers, Powell, OH, Pete Monwai, Seattle, WA, Scott Shaffer, Weston, WV, Ellie Friml, Hollis, NH, David Mitzenberger, Portland, OR; Scary Mutant (ReadySoft) - Tom Fusco, Rockville, MD, Brian Koehler, Pasadena, MD, Marjorie Mack, Covington, LA, Daniel Weir, Anacortes, WA, Brian Howard, Stanford, CA. Paul Baron, Munhall, PA; Rock Challenge (ReadySoft)-David Neighbors, West Monroe, LA, Peter Castro, Sunnyvale, CA, Dieter Bloser, Cleveland Heights, OH, Mike Gentry, Cookeville, TN, Rick Wirch, Monona, WI, Matt Scotten-Preecs, Portland, OR.

Gold of the Realm (Magnetic Images)-Scott Touzet, Monroe, LA; Airball (MichTron)-Leon Martin, Fairborn, OH; Fight Night (MichTron)-Michael Pershing, Xenia, OH; HiSoft BASIC Pro (Mich-Tron)-Lindsay Zollinger, Phoenix, AZ; M (Intelligent Music) - Andrew Funk, Fort Collins, CO, David Rawle, Hendersonville, TN; Quest I (Sound Quest)-Ricky Hortman, Monroe, LA, Judy Purtell, Long Beach, CA, Dan Cooley, Clinton, IA, Mike Garner, Falls Church, VA, Mike Jourdan, Lexington, KY; Editor/Librarian (Sound Quest)-Jim Roberts, Snellville, GA, Brad Anderson, Salem, MO, Bruce Loebrich, Maumce, OH, Kevin Wiese, Orlando, FL, Robert Norton, Madison, WI.

Mind Light (Visual Aural)-Robyn Thurman, Lexington, KY; Nimbus (Oxxi)-C.D. Whitire, Phoenix, AZ; Tax Break (Oxxi) - Willa Boisseau, University City, MO, Todd Allendorf, Clinton, IA; P.D. Disk Set (PD Software Resource) - Chris Richard, Liverpool, NY, Carolyn Argo, San Antonio, TX; Who! What! When! Where! (Blue Ribbon Bakery) - Bill Richard, Fort Myers, FL, Paige Plummer, Lexington, KY, John Fowkes, Huntington Beach, CA, Rahila Ansari, Shaker Heights, OH, David Hetzel, So. Milwaukee, WI; Set of Course Disks (Moonlight Dev.) - C. Johnston, Euclid, OH: Thinker (Poor Person Software) - Russ Purtell, Redondo Beach, CA, Ken Menderhall, Dayton, OH.

Bubble Bobble (Taito)-Teresa Richard, Monkton, MD, Fred Maloney, Grosse Pointe, MI, Timothy Boykin, Stanford, CA, Mickey Aigo, Offutt AFB, NE, Nancy Ruba, Orange City, IA, Jim McCormick, London, Ontario, Karen Schellman, Ballwin, MO, Mike Douglas, St. Louis, MO, Jennifer Stewart, Fairfax VA, L.C. Debbe, Maumce, OH; Operation Wolf (Taito) - Ann Freeman, Hickman, KY, James Quinn, North Wales, PA, Mike Hale, Ballwin, MO, Joe Saunders, Memphis, TN, Mike Goldstein, Clifton, VA, Darrel VanDusen, Spring Lake, NC, Fred White, Haverton, PA, William Richard, Syracuse, NY; Renegade (Taito) - Bonnie Packert, Escondido, CA, Terry Richard, New York Mills, NY, Edwin Long, Bartlett, TN, Gary Elliott, Bolivar, MO, Jim Alerico, St. Peters, MO, Michael Chiofolo, Mount Holly, NJ, Dawn Seery, East Lyme, CT, Ken Sherman, Oakland, CA.

Disk Magic (DMH Tech.)-Phil Bolton, Bloomington, MN, George Affleck, Markham, Ontario, Joe Rozman, Scott AFB, IL; Microfiche Filer (Software Visions)-Patrick Dretnick, Hagersten, Sweden, J. Dale Holt, Manchester, TN, Guillermo Garcia, San German, Puerto Rico, Thomas Tock, Waterloo, IA; Solitaire Royale (Spectrum HoloByte)-Gale Loebrich, Toledo, OH, Patrick Rogers, South Bend, IN; Mastering CLI (Graphic Expressions) - Richard Sadler, Norwich, CT; A.L.F. G (Prespect) - Kevin Freeman, Carbondale, IL; OMTI HDD Controller (Prespect)-Joseph Shaughnessy, Longwood, FL

Heroes of the Lance (Strategic Simulations)-John McCormick, London, Ontario, Cory Humphrey, Cookeville, TN; Demon's Winter (Strategic Simulations) - Doug Leighty, Rimersburg, PA; Questron (Strategic Simulations) - Robert Baker, Columbus, OH; Multi-Prefs (Soft-Link) - Tomie Anderson, Salem, MO, Adam List, Chicago, IL, Al Shortt, Gulf Breeze, FL, Thomas Martin, New York, NY, Steven Jones, Paint Lick, KY; Stuff-It (Soft-Link)-Mary Jensen, Cedar Falls, IA, Chris Gayde, Monroe, MI, Rick & Kerri Farrell, North Lauderdale, FL, Paul Zoll, Seaford, NY, Matthew Dunkle, Fayetteville, TN; Hole-in-One (DigiTek)-Christopher Schiller, Chicago, IL, M. Russo, Glendale, AZ; Powerstyx (DigiTek)-Richard Page, Thunder Bay, Ontario; Western Games (DigiTek)-Donna Sadler, East Lyme, CT; Joe Blade (DigiTek) - Leonard Nadolny, OAFB, NE, Keith Martin, Fridley, MN, John Sanders, Pennfield, NY.

AMIGA AMIEXPO
THE

ALAUTGA

PERSONAL COMPUTER SHOW

Come See The California Goldrush! October 20-22, 1989 Santa Clara Convention Center Santa Clara, CA

Over 10,000 Attendees and 120 Amiga Companies Will Be There. STRIKE IT RICH AT AmiEXPO-CALIFORNIA!

Admission includes the Exhibition, Seminars, Keynotes & Amiga Artists Theatre!

120 Amiga Exhibitors Featuring State of the Art Software and Hardware, at the lowest prices!

Master Classes Available in Amiga Graphics, Video, Programming, Animation, Music and Publishing!
Seating for Master Classes is limited; call for schedule and availability before registering.
PRE-REGISTRATION DEADLINE IS OCTOBER 6, 1989

For Hotel Reservations Call the DoubleTree Hotel at (408) 986-0700.

Hotel reservations deadline: September 20th. 1989.

For discounted airfares, call American Airlines at (800) 433-1790 and give them this ID: S-83536.

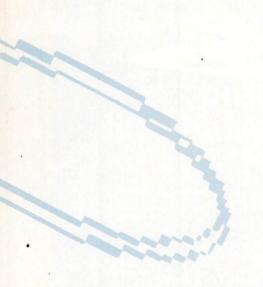
REGISTER TODAY!

Register by Mail, or Bring This Coupon to the show or Call 800-32-AMIGA Nationwide (or 212-867-4663)

<u>For Your Ticket to The Amiga Event!</u>

THE CONTRACT COMMERCE	O AmiEXPO - California Saturday Sunday	NAME COMPANY ADDRESS
Registration is \$5 Additional At The Door Master Class(es) - List (One day - \$15 Two days - \$20 Three days - \$25 Class and Time - \$60 Each	CITY STATE ZIP For MasterCard orVISA Payment Expiration Date Account Number
Circle 72 on Reader Service card. Tot	tal Amount Enclosed	Name as it appears on card: Signature Make Check or Money Order Payable to: AmiEXPO 211 E. 43rd St., Suite 301 New York, NY 10017

info.phile



TYPING THE SAME commands over and over again for often-used routine procedures is one of the most annoying and time-consuming tasks. A powerful feature, however, of AmigaDOS 1.3's new Shell—its ability to create scripts—can lighten the load considerably.

Scripts are sequences of commands that you can execute as if they were single commands. Scripts (also called batch files or command files) are actually ASCII files that contain lists of commands. When you execute a script, the Shell treats it essentially as if you had typed the commands in the file.

You can create scripts with any text editor that can save its output as pure ASCII. This includes ED and MEMACS, as well as Notepad—although with Notepad you must stick to one font and you cannot use any styles. You can put any of the normal Shell commands in a script, as well as such special commands as IF that work only in scripts.

Let's start with a very simple example: a script that saves the files in your current directory to a directory named BACKUP on the disk in your external drive, dfl:. First, create the directory BACKUP on the disk in dfl:. Then, using your text editor, create a file named

Scripts For Success Part 1

This three-part series from our AmigaDOS directing team will demonstrate why 1.3's new Shell, not Hollywood, is the hot spot when it comes to writing and producing blockbuster "scripts." Ready to roll on Act One...

By Mark L. Van Name and Bill Catchings

SAVEIT that contains the single line COPY #? DF1:BACKUP

There are three ways to run a script. Two work from the Shell, while one runs from Workbench. All scripts, however, work the same way within each method, so our example will suffice to explore all three approaches.

EXECUTING SCRIPTS FROM THE SHELL

The traditional way to run a script is with the EXECUTE command. Simply follow that command with the script file's name, as in

EXECUTE SAVEIT

This approach appears to require you to put the script you want to run in your current directory, which could be a problem if you use several scripts regularly. Don't worry; EXECUTE is smarter than that. When you enter

EXECUTE <file>

EXECUTE first checks for <file> in the current directory. If it is not there, EXE-CUTE then checks both the S: directory (usually Workbench1.3:S) and all the directories on your path. (S: is the standard AmigaDOS script directory, in the same way that C: is the standard com-

mand directory. If you use a script often, you should put it in S:.)

In AmigaDOS 1.3, however, a new, shorter approach to running scripts has been added. To use the new method, first you must tell AmigaDOS that your script file is a script. To do so, use the PROTECT command to set the file's script protection bit, as in

PROTECT SAVEIT +s

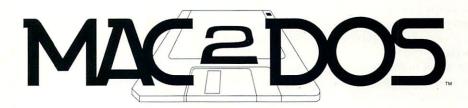
Now you can treat the script file almost as if it were an executable program. To run it, simply type its name at the command prompt:

SAVEIT

Because the Shell can tell that SAVEIT is a script file, it calls EXECUTE to run that file. This approach works even if EXECUTE is not resident, although EXECUTE must be in a directory (usually C:) where the Shell can find it.

EXECUTING SCRIPTS FROM THE WORKBENCH

The ability to execute scripts from the Workbench, courtesy of the program IconX, is another feature of 1.3. (You never run IconX directly—in fact, you cannot run it from the Shell—but Workbench does use it to execute scripts.)



AMIGA

Mac-2-Dos lets you read and write Macintosh diskettes on your Amiga!

Mac-2-Dos gives your Amiga the power to read and write files to and from 400k and 800k Macintosh floppy disks using a standard Macintosh-compatible 3.5-inch external floppy disk drive connected to your Amiga.

Here are a few typical Mac-2-Dos uses:
Amiga users can now have access to the extensive variety of Macintosh clip art available on Macintosh disks! ✔ Amiga users can now MAC take their Amiga PostScript files (on a Macintosh diskette) to most any typesetting service bureau to be output on professional typesetting equipment! College students who are required to have a pricey Macintosh can now choose the Amiga and still meet the requirement of being Macintosh compatible! Amiga users can transfer all kinds of files, like word processing and desktop publishing files, spreadsheet files, or database files. V Musicians can quickly and easily transfer Standard Midi Files (SMF) between the Macintosh and Amiga!

Mac-2-Dos includes a custom hardware interface, driver software, file conversion software, and, optionally, a Mac-compatible 3.5-inch floppy drive. The hardware interface plugs into the Amiga external disk drive connector or into the last external drive of the delay shaired disk drives. The Mea drive

drive of the daisy-chained disk drives. The Mac drive draws its power from the Amiga.

PACKAGE A: Package A includes a custom hardware interface, file transfer software, and file conversion software. Only \$99.95

PACKAGE B: Package B includes a custom hardware interface, file transfer software, file conversion software, a Mac-compatible 3.5-inch floppy drive, and a software

driver to allow the Mac drive to be used to read and write standard AmigaDOS diskettes as well. **Only \$349.95**[†]

LIMITATIONS: Mac-2-Dos is a disk file transfer utility program; it is not a communications program, nor is it a Macintosh emulator. It DOES NOT permit Mac programs to run on the Amiga.

 Plus \$3.00 shipping/handling, † Plus \$5.00 shipping/handling CO residents add appropriate sales tax.

QUARTERBACK

The FASTEST Hard Disk Backup Utility!

"Many in the Amiga community consider Quarterback V2.2 the standard of our community.... My overall impression of Quarterback is smooth and complete.... For the average Amiga harddrive owner, Quarterback is still the utility of choice."

- Steve Dock, The Amiga Sentry, March, 1989

"...Quarterback is the program I've chosen to keep my hard disk backed up.... Given the added power and lower price of Quarterback, it would be my first choice for a hard disk backup program."

- Matthew Leeds, Commodore Magazine, June, 1989

"The fastest of the lot, Quarterback V2.0 copied my 4.3 megs to five floppies in four minutes and fifty seconds. The user interface is smooth and intuitive, the process painless and reliable, and the speed a good sight better than even second runner up.... There are just enough gadgets around to make things easy, and not so many as to make them confusing. This is the program we use to back up our hard disk and Bernoulli data."

- Mark R. Brown, INFO #26, May/June, 1989

Only \$69.95 Plus \$3.00 shipping and handling, CO residents add sales tax.

Coming Soon! QUARTERBACK TOOLS A collection of high-quality user-friendly utilities.

Transfers MS-DOS and Atari ST files to and from AmigaDOS! It transfers both binary (pure data) and ASCII (text) files.

Let DOS-2-DOS be your PASSPORT

to the world of foreign disk formats.

Only \$55.00

Plus \$3.00 shipping and handling, CO residents add appropriate sales tax.



Central Coast Software

424 Vista Avenue Golden, Colorado 8040 Phone 303 / 526-1030 FAX 303 / 526-0520 Dealer Inquiries Welcome It takes a bit of effort to prepare a script file for use from the Workbench, but the result is worth it because you can run a suitably prepared script as you would a program—simply by double-clicking on its icon.

First, write the script in the usual way. You may set the script bit, although it is not absolutely necessary to do so. Because you want to use the script from the Workbench, you must give it an icon. (Make sure it is a Project icon, not a Tool icon.) An easy way to obtain a Project icon is to copy the icon of the file ReadMe in the main directory of the 1.3 Extras disk. With that disk in dfl:, you can assign SAVEIT an icon by entering

COPY DF1:ReadMe.info SAVEIT.info

The next step is to edit your script's icon so that IconX can work with it. Go back to the Workbench screen, open the drawer containing your script file, and click once on its icon. Then move the mouse cursor to the Workbench menu and select Info. What appears is a full-screen window labeled "Info 1.3" in which you will perform your editing.

Make sure the icon's TYPE (right under its NAME) is Project. (If it is not, click QUIT to exit Info, go into the Shell, delete this icon, and get a Project icon for your script.) Click in the Default Tool field. Delete any characters that are already in that field, and then enter

C:IconX

We assume here that you use the standard C: directory. If not, enter the full pathname of the IconX program on your Workbench disk.

Now check the Tool Types field. If it is blank, click on the up and down arrows (next to the words "TOOL TYPES") to make sure that there are no hidden tools. If no tools appear, you are all set to run your script. If you obtained your icon by copying ReadMe's icon, however, you have some additional work to do. In fact, you will find four tools here. Click on the Delete button next to the Tool Types text field to delete the currently visible tool. Repeat that process until all the tools are gone. Verify this by using the up and down arrows. Do not merely delete the characters in this text field; a blank tool will confuse IconX and stop it from running your script. Use the Delete button to remove them all.

Now we're ready to go. Click SAVE to exit IconX and save your changes. To run your script, double-click on its icon.

A Shell-style window will appear in the same spot and in the same size as the standard Shell window, but its label will be IconX rather than Shell or CLI. The output of your script will appear in that window; SAVEIT will display the names of files as it copies them. When the script is done, the window will disappear immediately and you will be back to the Workbench.

GETTING AROUND THE GLITCHES

That rapid disappearance can be annoying when you need to read your script's output, but, fortunately, the problem is easily remedied. Bring up Info on the icon as before. Go to the Tool Types field, and this time click on ADD, not DEL. Type the following line into that text field:

DELAY = 150

This line will make IconX wait 150 "ticks" after the script is done before it closes the window. An AmigaDOS "tick" is one-fiftieth of a second, so that a value of 150 will give you a three-second delay. You can substitute any number you wish to achieve the delay of your choice.

Be sure to type the line given above just as it appears. If you leave any spaces before or after the equal sign, or if DE-LAY is not all in uppercase, IconX will ignore your new instructions. Also, beware of a bug in the AmigaDOS 1.3 Enhancer Software manual. It states that you can use a DELAY = 0 here to make the IconX window stay open until you type CTRL-C. That is not the case. To verify that the delay works, click SAVE in Info and then run the script again.

While this procedure solves one difficulty, two nagging problems persist: You are stuck with that default window, and the window's name is IconX, not that of your script.

Go back to Info. The solution is to add another tool, so click on ADD in the Tool Types field. This time, however, you will need to add a Window tool that will define the location, size, and title of your script's window. To do so enter the following line in the format:

WINDOW = <handler:><startx>/
<starty>/<width>/<height>/<label>

where <handler:> is the name of the

window handler you want—either NEW-CON: for the new Shell handler (which we recommend), or CON: for the CLI's handler.

The next four entries define the placement and dimensions, in pixels, of the window. <startx> defines the left margin of the window in relation to the edge of the screen, while <starty> sets the depth of the window's starting position from the top of the screen. To begin the window at the upper left corner, for example, make both of these 0. The <width> and <height> of the window are also defined in pixels. To make the window the width and height of a full, non-interlaced screen, use a <width> of 640 and a <height> of 200. (The slashes (/) between the entries are required.)

With <label> you assign the name that will appear in the upper left corner of this window, replacing IconX. The label can contain spaces, and unlike with the Shell, where you must surround a label containing spaces with quotes, here you can simply type in the spaces. (If you were to use quotes here, they would appear as part of the window's title.)

Thus, to create a full-screen window whose label is My Script, enter

WINDOW = NEWCON:0/0/640/200/ My Script

Again, be careful: WINDOW must be all caps, and no spaces should appear before or after the equal sign.

It is perfectly okay to have both the Delay and Window tools in the same script icon, even though you are not using them at the same time. Remember, however, that you can edit or delete only the tool that is currently visible. Use the up and down arrows to make visible the tool you wish to edit.

Click SAVE, and you are ready to proceed. Now when you run SAVEIT, its window will follow your specifications, not the Shell standard.

You should now have enough general background on *running* scripts. In the next two columns we will look at the commands and features that you can employ to *write* powerful scripts.

Bill Catchings and Mark L. Van Name are contributing editors to AmigaWorld. Write to them at 10024 Sycamore Rd., Durham, NC 27703.

The Neriki Image Master™ Genlock.

It works with the Amiga.





init

That has a lot of obvious advantages—no expansion slots are wasted, no added load on the power supply, and none of the keyboard commands that have to be used with internal genlocks.

But the real advantages are in performance. The Neriki Image Master meets NTSC broadcast standards. It encodes at 5.5 mHz and delivers full 500 line resolution. Even third generation tapes are broadcast quality. It works with any Amiga computer and all Amiga text, graphics, paint and animation software. It genlocks to any video source—studio reference,

black burst, camera, TBC, and any suitable video tape source in any format (including S-VHS) — and puts out high quality composite or R-G-B baseband video for flawless productions. It can be used up - or down-stream. And it gives you simple and instant front panel controls for Chroma Phase (coarse and fine), Effect Key, Enable, Key Invert, and Dissolve.

The Neriki Image Master is RS-170A approved and available now—with a full one-year limited warranty. More information is yours for the asking, Just call or write.

NEW-If you have to meet broadcast quality on a non-broadcast



budget, find out
about the economical new Neriki
DeskTopTM genlock.



TELMAK INC. P.O. Box 54 Plainview, New York 11803

Phone 1-800-637-4540

Image MasterTM and DeskTopTM are trademarks of Fordray Manufacturing Pty Ltd. Amiga® is a trademark of Commodore Electronics Limited.



Bad Games Anonymous

What happens when you can't just say no.

By B.G. Hunter

A FEW MONTHS ago I noticed a disturbing theme in the letters I received from readers. Many Amiga owners are so addicted to computer gaming that they compulsively play inferior games they shouldn't even like. To rescue these readers, I've started a self-help-by-mail organization, Bad Games Anonymous (BGA). Here are some confessions from the charter members. If, as you read these letters, you catch glimpses of your own gaming behavior, then it might be time for you, too, to join BGA.

Consider "Head Lock's" plight:

Dear B.G.,

I'm hooked on International Championship Wres-



tling (Avatar Consulting, \$32.95). ICW is as bad as the real thing, maybe even worse, but, like many wrestling fans, I can't help myself.

I usually start out as the high-flying Eagle, master of the Texas Bulldog. I'm sorry, but I just love fighting my way through Ivan, the Russian assassin, and Khan, the Mongolian Killer, so that I can finally meet Bruiser, the ICW Champ, mano a mano. First I box with them, wearing them down, and then I switch to wrestling mode and trash them with a suplex or two, an atomic drop, maybe a power slaw, and my favorite, the piledriver. I love the grunts and groans, the satisfying thump as my opponent hits the mat.

Getting him to the thump is guess work. It's almost impossible to remember which joystick position does what, and every bit as hard to learn to control the joystick so that you can finally lay a hand on your opponent, but I don't care—I'm hooked. I don't even mind the fact that all I can do when my opponent has me down is shake the joystick wildly and scream at the screen. Help!

"In the Gutter" no longer leaves his home he's so thoroughly afflicted:

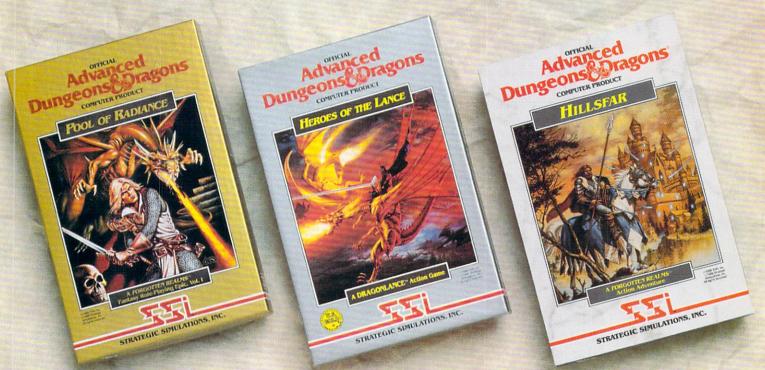
Dear B.G.,

I want to stop playing Superstar Indoor Sports (Mindscape, \$49.95), but I can't. I keep thinking it will get better, but it never does.

Five hours of bowling made my hand ache as if I ▶

Bruiser's on a wrestling rampage.

Advanced Dungeons agons® COMPUTER PRODUCTS



Role-Playing

POOL OF RADIANCE uses the legendary ADVANCED DUNGEONS & DRAGONS roleplaying system to make all your computer gaming fantasies come true. Embark on dangerous quests in the magical FORGOTTEN REALMS game world - made real by computer animation with combat that adheres strictly to AD&D® game standards. Prepare yourself for the ultimate fantasy role-playing



MACINTOSH C-64/128 IBM APPLE II AMIGA

experience!

COMING SOON: ATARI ST APPLE II GS

Action

HEROES OF THE LANCE gives you non-stop excitement and fully animated action in the mystical DRAGONLANCE® game world. Guide eight Companions, each with different skills, deep into the treacherous ruins of the temple Xak Tsaroth. They'll need all your skills to help them survive the attacks of giant spiders, demons, dragons and countless other terrors. Retrieve the precious

if you dare! AMIGA

Disks of

Mishakal -

ATARI ST C-64/128

Action Adventure

HILLSFAR is the training grounds for your heroes. Transfer your characters from Pool of Radiance or Curse of the Azure Bonds and increase their skills through real-time workouts such as combat, mazerunning, lock-picking, archery and horseback riding. Succeed in Hillsfar and your characters' statistics will actually improve. They will emerge from Hillsfar more pre-



pared than ever to survive further adventuring.

AMIGA ATARI ST C-64/128 IBM



ADVANCED DUNGEONS & DRAGONS, AD&D, FORGOTTEN REALMS, DRAGONLANCE and the TSR logo are trademarks owned by and used under license from TSR, Inc. @1989 TSR, Inc. @1989 Strategic Simulations, Inc. All rights reserved



To Order: Visit your retailer or call 1-800-245-4525 to charge on VISA or MasterCard. To receive SSI's complete product catalog, send \$1.00 to: SSI, 675 Almanor Avenue, Sunnyvale, CA 94086.

Manufacturers' Addresses

Avatar Consulting distributed by Digital Wizards 9307 Carlton Hills Blvd. Santee, CA 92071 619/449-5218 DigiTek Software 8910 N. Dale Mabry Executive Center, Suite #37 Tampa, FL 33614 813/933-8023 *Mindscape* 3444 Dundee Rd. Northbrook, IL 60062 312/480-7667 800/221-9884

had been at the lanes. If I kept fiddling with the ball weight, the alley slickness, the aiming arrow, my release point, and the skill level, I knew I could win. The next problem would be reproducing the complex formula for future games.

Bowling is tolerable, however, compared to darts and ping-pong. I wasted hours trying to master the overly complicated dart-throwing technique: depress the joystick button to aim, release it to determine the throwing angle, and then click again at the appropriate power setting. With all the dials spinning and power bars pulsing I lost track of the dart. In pingpong, I understand the backspin and the smash techniques, but I can rarely get to the ball to use them. The paddle always drifts across the screen at the same speed, no matter how quickly I react or how fast the ball is moving. I often flail at air. Please help me.

Written in crayon in a large, barely legible scrawl, a letter from "Little Rumbler" said:

Dear Mr. B.G.,

I got tired of doing math problems in that Discovery game. I went to my daddy's room and took Thunder Boy (DigiTek, \$34.95).

A little blond boy in diapers jumps over spiders with stingers and runs away from bats and other bad things. He has to go fast before he runs out of energy. The boy tries not to get killed by these things. He's supposed to save "his woman" that some dragon kidnapped. I don't understand why he'd even want a woman, but I figured it was okay because it was only a game. Besides, he makes a really neat, bad scream when he dies. He dies a lot. I can't make him jump and run very well. I read the rules, but they were shorter than my reading group lessons at school. Why is something so silly, so hard?

I don't want to keep playing this game. Don't let me try to save that woman any more!

I vow to do my part, Little Rumbler and bad game junkies everywhere. I'll be ever vigilant, ever honest in my quest to separate good games from bad, to try to stop any more innocents from being sucked into the painful trap of bad game addiction. □

Although not the type to be caged in an office, B. G. Hunter does skulk in occasionally to pick up his mail. Write to him c/o AmigaWorld, Editorial Dept., 80 Elm St., Peterborough, NH 03458.

G A M E R E V I E W S

SIMCITY POPULOUS

By Peter Olafson

QUITE A transformation has been wrought in my life with the arrival of SimCity and Populous, two delightful programs that allow would-be Apollos to be omnipotent on scales both global and municipal. It's long past the seventh day since these two arrived, and I haven't rested. I haven't even come up for air.

SimCity permits you to design a city from the ground up, and to try to master the problems plaguing the "sims" who then build and inhabit it: pollution, traffic, unemployment, the whole bit. In Populous, you have to build up or tear down the ground itself to encourage your people—an

animated lot of top-tappers in *Flintstones* outfits—to build the settlements themselves, while stomping the minions of an enemy god.

The animation provides the initial tickle; it's easy to forget playing the games, and just watch the little people run around your creation like madmen. Things will come

apart quickly without your guiding hand. In SimCity, you lay out streets, bridges, parks, commercial, residential and industrial zones, power plants, airports, and seaports. The residential zones sprout houses, cars appear on the roads, ships on the waterfront, planes in the sky. The stadium >



Quality Clips for Your

Qual Ar

Acft Pics tm Suggested Retail \$49.95





Heraldic Picstm Suggested Retail \$34.95

Map Pics - Worldtm Suggested Retail \$59.95



China Pics tm Suggested Retail \$34.95



Christmas Pics tm Suggested Retail \$34.95

These image-packed screens are in 16- and 32-color IFF format for use with paint packages such as Deluxe Paint II on an Amiga 500, 1000 or 2000.



Bird Picstm Suggested Retail \$29.95

All packages require AmigaDos V1.2 or V1.3, a minimum of 512K of memory and a paint package.

To order, see your dealer or contact: Tangent 270 PO Box 38587-A12 Denver, CO 80238 (303) 322-1262



Deluxe Paint II is a trademark of Electronic Arts; Amiga and Amiga-Dos are trademarks of Commodore Amiga. fills up for home games. Put a nuclear power plant in the middle of a suburban neighborhood and people will move away. And woe betide the simulated city that doesn't have enough money to cover its budget come January 1st. You can track your progress via the graphic overlays, charts, annual budget, year-end population survey, and opinion poll. While this game is the most sophisticated ant farm a kid ever had, it's not so sophisticated that you can't just boot up and fool around.

If you get bored with your

you raise and lower land to provide a nice level surface for construction, while using earthquakes, swamps, volcanoes, and floods to give your opponent—either the computer or another schnook with a modem—a nasty pitted and rocky one. (Building volcanoes on top of one another in the enemy's chief civilized plain effectively makes that territory unusable for the next millennium or so.)

The overhead view of Sim-City is impressive, but Populous has to be seen to be believed. The bulk of the



The fate of Populous dwellers is in your hands.

creation you can select a cataclysm to rain down upon it. There are also a number of pre-built, problem cities—such as post-meltdown Boston and post-firestorm Hamburg—to redeem. If you master all of the above, the file format for cities is identical on the Amiga, IBM, and Macintosh versions, and you can exchange your creations; I've already spotted a handful on the networks.

Populous isn't the social wars on crime and poverty; it's more like war, period. You help your people settle land, increase their number (and hence your power or "manna") and give the hardest of times to rival settlers in red suits who are aided and abetted by another god. To do so,

screen is taken up with two maps: a "Book of Worlds," showing the full playfield, and a glorious perspective view of a closeup map complete with settlements from grass huts to turreted castles, people, trees, mountains, and coastlines. The icon system isn't quite as painless as SimCity's, but it's the next best thing, and you'll be cutting down the heathens in no time. The atmospheric, Gregorian chant-like music and special effects (heartbeats, for instance) provide just the right apocalyptic touch as your civilization does the dance of death. ►

Call on Sunday





Hardware Spectacular! Sensational Savings! Compare!

HardCards w/HF2000		HardCards w/FastCard FastTrack A500/A1000			Supra HardCa	rds	Memory Expansion A2000/A2500/A500/A1000				
HardFrame		FastCard		FastTrack Sys.	\$ 379	Supra Controller	\$ 210	8Up 2Mg	\$ 435	Starboard Ok	\$ 269
138N 32Mg	589	138N 32Mg	506	138N 32Mg	722	138N 32Mg	579	8Up 4Mg		Starboard 512K	339
157N 48Mg	659	157N 48Mg	589	157N 48Mg	799	157N 48Mg	629	8Up 6Mg	70000	Starboard 1Mg	399
Quantum 40Mg	729	Quantum 40Mg	639	Quantum 40Mg	869	277N 63Mg	739	8Up 8Mg		Starboard 2Mg	579
Quantum 80Mg	1059	Quantum 80Mg	979	Quantum 80Mg	1199	Quantum 40Mg	679	Spirit 512K	100000000000000000000000000000000000000	MiniMeg 512K	378
Quantum 105Mg	1129	Quantum 105Mg	1039	Quantum 105Mg	1279	Quantum 80Mg	1011	Spirit 1Mg		MiniMeg 1Mg	459
277N 63Mg	759	277N 63Mg	689	277N 63Mg	889	Quantum 105Mg	1099	Spirit 1.5Mg	439	MiniMeg 2Mg	599
External 5.25 Drv	\$ 179	External 3.5 Drv	\$ 119	Internal 3.5 Drv	\$ 89	Digi-View Gold, W	/ 1410	Panasonic came	era w/lens	and Copy stand	\$399

ACCECCODIEC

ACCESSORIES	
A-B Switch cable	\$35.00
A/B/C/D Switchbox	63 .00
Boing optical mouse	. 109.00
Copy Stand	65.00
Copy Stand	52.00
Ece Midi 500/2000	52.00
Fnvx 500JX	15.00
Ergo Joystick	17.00
Ergo Joystick	65.00
nfared mouse	176.00
MD120 3.5 Disk holder	29.00
MD60 disk holder	26.00
MD64 disk holder	26.00
Modem cable A1000	15.00
Modem cable A2000/500	15.00
Mouse holder	6.00
Mouse master	29.00
Mouse pad	9.00
Multisync cable I-102M/F	24.00
Okimate black ribbon	
Okimate color ribbon	8.00
Power strip 6 outlets Printer cable 2000/500	17.00
Printer cable 2000/500	15.00
Printer cable A1000	15.00
Quick shot Joystic	15.00
Ribbon panasonic all	10.00
Slick stick	
Star NX black ribbon	
Star NX color ribbon	
Tilt and swivel stand	21.00

Xerox 4020 500/sheet 25.00 **CAD SYSTEM**

oraw 2000	\$183.00
lome builder cad	. 129.00
lome builder choice	53.00
ntro cad	51.00
ogic works	65.00
ro-Board	. 399.00
Pro-Net	. 399.00
C-Cad system	. 385.00

A500/A2000/A2500 PERIPHERALS

A1084S stereo monitor	CALL
A2000 HD 40mg28ms w/cont	CALL
A2058 2mg 8mg ram board	CALL
A20620/2meg 32bit	CALL
A20620/4mg 32bit Mem	CALL
A2090A HD controller	CALL
A2300 Genlock	CALL
A2500 HD40mg28ms3mgMem	
68020/68881	CALL
Amiga 2000 Cpu	CALL
Amiga 500 CPU	CALL
AT Bridge card A2286	CALL
Bridge card A2000	CALL

COMMUNICATIONS

Atredes profess	BE	38							96.00	
3BS pc									96.00	
Diga									50.00	
Diga Online Platinum	١								69.00	
REATIVE	R	0	D	U	C	ì	I	٧	TTY	
Analytic art								5	39.00	

ATABASEMANAGEMENT

Analytic art
Sizmoz enhanced
Intellitype
Magellan
Master type
Mavis beacon typing
Your family tree

acquisition\$	189.00
Data retrieve	
Data Retrieve Prof	
bman	
Micro base	24.00
Micro fiche filer	
Aicrofiche filer plus	
Organize	
oftwood file II gs	
uper base	
uperbase pers. II	. 98.00
uperbase Pro. 3.0	229.00
uperbase professional	189.00

PROGRAMMING LANGUAGES

A/C basic	\$120 M
A/C fortran	
Algebra ii	
Arexx	
Assem pro	
Aztec C developer	195.00
Aztec C professional	129.00
Aztic complete devel.sys	315.00
Benchmark C library	60.00
Benchmark iff library	
Benchmark modula 2	
Benchmark simplified	
Cape 68k	
Critic's Choice	. 159.00
Devpac Ed/Assem/link/debg	66.00
Dissasembler	
GFA basic 3.0	
Inovatools #1	54.00
Lattice C	132 M
Lattice C + +	. 379.00
Lattice C professional	. 249.00
Lattice developemnt system 5.0	
Library's source	. 197.00
Macro assembler	65.00
Metacomco lisp	. 131.00
Metacomco pascal	95.00
Metacomco shell	40.00
Metascope debugger	65.00
Power windows v2.5	58.00
Pro Basic	
Publishers choice	
Source level debugger	
The power system pecan	
The professional pecan	
The Works Platinum	
True basic	
W. shell	33.00

FONTS

Asha's fonts	. 57.00
Calligrapher	\$63.00
Fancy 3d fonts	. 52.00
Font set I	. 22.00
Inter font	. 76.00
Kara fonts color	. 50.00
Lion fonts	. 56.00
Masterpiece fonts	159.00
News letter fonts	. 29.00
Profonts I Prof	. 23.00
Profonts II decorative	. 23.00
Studio font	. 29.00

HARDWARES

BUP Memory Exp. A2000	\$165.00
Accelerator	. 152.00
Amigen	153 OC
Easyl A1000	349.00
Easyl A2000	379 00
Easyl A500	345 M
Expan 512K A500	159.00
Expan. 512K A500 Expansion 1mg A500	400.00
Flicker fixer	405.00
Framegrabber	570 OC
Future sound	120.00
Light pen	. 129.00
Live A2000	040.00
Live framegrabber A1000	. 349.00
Live framegrabber A500	245.00
MC69991 Math Co assessment	. 305.00
MC68881 Math Co-processor.	.179.00
Multifunction card	75.00
My-T-Mouse	39.00
Perfect sound A1000	69.00
Perfect sound A500/A2000.	69.00
Phoenix power supply A500.	95.00
Progen	. 379.00
Super Gen	. 695.00
Supra modem 2400bd	149.00
WV1410 Panasonic Camera	
w/lens	210.00

SPREADSHEFTS

Analyze! 2.0							\$	95.00
Haicalc								
Maxiplan 500								95.00
Maxiplan plus .							1	26.00
Super plan								97.00
/IP Professional								65.00

DESKTOP PUBLISHING

Citydesk \$97.0
Citydesk companion 15.0
Citydesk companion II 15.0
Page stream
Page setter97.0
Professional Draw 129.0
Professional page
Publisher plus
Shakespeare
Snakespeare 125.0
ACCOUNTING
ACCOUNTING
The Accountant \$183.0
Best general ledger
Financial plus
Invester advantage 63.0
Miamiga ledger 63.0
Micro lawyer
Easy Ledger
Lady Ledger

WORDPROCESSORS

Becker text \$92.00
Excellence! 179.00
Flow idea processors 63.00
Gold spell II
Kindwords 65.00
LPD writer
LPD writer unprotected 83.00
Micro text
Prowrite v2.0 80.00
Reason 249.00
Text pro
Word perfect 159.00
Wp library79.00

MONITORS

Amdek multisync 12' mon	\$512.00
Panasonic 8cm515 mon	249.00
Sieko cm1430 monitor	699.00
Sony multi-scan Monitor	535.00
Zenith 14' Flat screen mon	720.00
Nec 3D multisync	799.00
Taxan 1000 20" multisync	. 2899.00

EDUCATION

Adventure of sinbad	32.00
Aesop's fables	32.00
Aesop's fables	35.00
Animal kingdom	32.00
Decimal dungeon	32.00
Discovery game math	25.00
Discovery game math Discovery game spell. First letters and words	25.00
First letters and words	35.00
First shapes	35.00
Fraction action	32.00
Grade manager	59.00
Great states	25.00
Kid Talk	35.00
Kinderama	32.00
Kinderama Kwik speak spanish	19.00
Learning curve	52.00
Link word French	22.00
Link word German	22.00
Link word Italian	22.00
Link word Russian	22.00
Link word Spanish	22.00
Math talk	35.00
Math talk fraction	35.00
Math wizard	35.00
Perfect score	51.00
Quiz master	51.00
Read & rhyme	32.00
Read-a-rama	32.00
Spell bound	25.00
Speller bee	35.00
Tales from Arabia	32.00
Wordmaster	32.00

PRINTERS

Alps Allegro 24 PIN399.00
Epson Apex 80 205.00
NEC LC890 laser PS 3395.00
Okimate 20 color prt145.00
Plug'n print 85.00
Star nx rainbow
Xerox 4020 ink jet 1295.00
Xerox 4020 starter kit 159.00
HP Paint jet CALL
Till Tallit Jot TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT

1-800-752-0050

1-508-756-6452

SALES AND QUOTES (outside Mass.): 1-800-752-0050

SHIPPING AND TECHNICAL SERVICE: 1-508-756-6452

QUOTE-A-FAX: 1-508-799-9354

- Corporate and volume purchases invited. Call Moe.
- Stock orders placed by 12:00 NOON EST shipped the same day.
- Allow 10 days for personal checks
- Wire transfer accepted.
- Minimum \$5.00 Shipping/handling charge
- Add \$3.50 for COD.
- Returns subject to restocking charge
- Software defects-call the Manufacturer
- For faster delivery send cashiers check

SOUND & MUSICS

4-op deluxe	\$97.00
Audio master	. 37.00
Audio master II	. 67.00
Back songbook	. 27.00
Copyist II	179.00
D-50	. 99.00
Deluxe music	. 69.00
Dr drums	. 20.00
Dr keys	. 20.00
Dr T's Keyboard	160.00
Dynamic drums	. 52.00
Dynamic studio	129.00
Future sound A500/A2000	. 92.00
Hot cool jazz	. 18.00
Hot licks	. 32.00
Instant music	. 32.00
Matrix 6	. 97.00
Midi Magic	. 99.00
Music student	. 38.00
Promidi studio	129.00
Rock & roll	. 21.00
Sonix	. 51.00
Synthia	. 59.00
Texture	. 97.00
Utilities 2(mimatics)	. 43.00
UTILITIES	4.0000000
	4-op deluxe Audio master Audio master II Back songbook Copyist II D-50 Deluxe music Dr drums Dr keys Dr T's Keyboard Dr. T's Midi recording studio Dx heaver Dynamic studio Enture sound A500/A2000 Hot cool jazz Hot licks Instant music Matrix 6 Midi Magic Mt-32 Music student Pro sound designer Promidi studio Rock & roll. Sonix Sound sampler Studio magic Synthia Trexture Utilities 2(mimatics)

UTILITIES B.A.D.disk optimizer	
B.A.D.disk optimizer	\$32.00
C.B. Tree	. 65.00
Celebrity cook book	. 20.00
Custom screens *	. 45.00
Custom screens	. 65.00
Disk 2 disk	. 33.00
Disk master	. 33.00
Disk mechanic	. 59.00
Dos 1.3	. 22.00
Dos 2 dos	. 35.00
Doug's math aquarium	. 52.00
Encore	. 45.00
Ez backup	. 33.00
Facc II	. 22.00
Fine print	. 33.00
Fleet check	. 33.00
Flip side	. 37.00
Gold spell	. 32.00
Gomf	. 27.00
Grabbit	. 19.00
Laser scripts	
Laser up: fonts	. 26.00
Laser up: plot	. 33.00
Laser up: print	. 58.00
Laser up: utilities	
Lex check	. 33.00
Lv backup	. 32.00
Multi preferences	. 20.00
Nag Plus Schedule Assist	. 52.00
Pro script	. 32.00
Project D	
Promis spelling	. 32.00
Quarterback	45.00
Raw copy 1.3	39.00
Superback	. 52.00
Superback	. 22.00
Tax plan	. 22.00
Tdi editor sources	
Tdi examples	15.00
Tdi grid access	
Tdi kermit	19.00
Text ed plus	52.00
V.I.P	32.00

HOME ACCOUNTING

Deskio	D D	C	ıg	e	Ţ	٠	٠	٠	٠		٠	٠	٠	\$46.0	
Money	me	nt	0	r.									*	\$65.0	
Phaser										٠				. 65.0	
Tax Br	eak											٠		. 53.0	

GRAPHICS & VIDEO

Animate 3-D	9.00
Animate 4D	9.00
	9.00
	2.00
	2.00
	8.00
Animation stand 3	2.00
Animation w/images 8	9.00
Animator apprentices 18	5.00
Animotion 6	5.00
	3.00
	0.00
	0.00
Art pak I	0.00
Art parts 1	0.00
	0.00
Award maker plus3	2.00
Broadcast Titler 18	9.00
Butcher	5.00
	9.00
Calligrapher help	8.00
	8.00
	9.00
Comicsetter 6	5.00
Deluxe paint II 8	9.00
Deluxe Paint III 10	2.00
Deluxe print II 5	5.00
Deluxe photo lab 10	2.00
	7.00
Deluve video II	9.00
Deluxe video II	2.00
Designasaurus3	
Digi paint	9.00
Digi paint help	4.00
Didi view	1.00
Director's Toolkit	6.00
Dpaint help	4.00
Exprss paint6	5.00
Express paint III 8	9.00
Forms in flight II 7	7.00
Future design 3-d 2	3.00
	5.00
Human design 3-d2	3.00
	9.00
	- 00
Impact5	5.00
Interchange 3	2.00
Interchange	2.00 9.00
Interchange 3 Invision 10 Lights Camera Action 4	2.00 9.00 9.00
Interchange 3 Invision 10 Lights Camera Action 4	2.00 9.00
Interchange 3 Invision 10 Lights Camera Action 4 Microbot design 3-d 2	2.00 9.00 9.00
Interchange 3 Invision 10 Lights Camera Action 4 Microbot design 3-d 2 Modeler 3d 6	9.00 9.00 9.00 3.00 4.00
Interchange 3 Invision 10 Lights Camera Action 4 Microbot design 3-d 2 Modeler 3d 6 Movie setter 6	2.00 9.00 9.00 3.00 4.00 5.00
Interchange	2.00 9.00 9.00 3.00 4.00 5.00
Interchange	2.00 9.00 3.00 4.00 5.00 5.00
Interchange	2.00 9.00 9.00 3.00 4.00 5.00 5.00 9.00
Interchange	2.00 9.00 3.00 4.00 5.00 5.00 5.00 5.00
Interchange	2.00 9.00 3.00 4.00 5.00 5.00 9.00 7.00
Interchange	2.00 9.00 3.00 4.00 5.00 5.00 5.00 5.00 7.00 3.00
Interchange	2.00 9.00 9.00 3.00 4.00 5.00 5.00 7.00 7.00
Interchange	2.00 9.00 3.00 4.00 5.00 5.00 5.00 7.00 3.00 7.00
Interchange	2.00 9.00 3.00 4.00 5.00 5.00 7.00 3.00 7.00 3.00
Interchange	2.00 9.00 3.00 4.00 5.00 5.00 5.00 7.00 3.00 7.00
Interchange	2.00 9.00 3.00 4.00 5.00 5.00 7.00 3.00 7.00 3.00
Interchange	2.00 9.00 3.00 4.00 5.00 5.00 5.00 7.00 3.00 7.00 3.00 3.00
Interchange	2.00 9.00 9.00 3.00 4.00 5.00 5.00 5.00 7.00 3.00 7.00 3.00 3.00
Interchange	2.00 9.00 3.00 4.00 5.00 5.00 5.00 7.00 3.00 3.00 3.00 3.00 3.00 3.00
Interchange	2.00 9.00 3.00 4.00 5.00 5.00 7.00 3.00 7.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00
Interchange	2.00 9.00 3.00 4.00 5.00 5.00 5.00 7.00 3.00 7.00 3.00 3.00 3.00 3.00 4.00
Interchange	2.00 9.00 3.00 4.00 5.00 5.00 5.00 5.00 7.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 4.00 4.00 5.00
Interchange	2.00 9.00 3.00 4.00 5.00 5.00 5.00 5.00 7.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 4.00 6.00
Interchange	2.00 9.00 3.00 4.00 5.00 5.00 5.00 7.00 3.00 7.00 3.00 3.00 7.00 3.00 4.00 6.00
Interchange	2.00 9.00 3.00 4.00 5.00 5.00 5.00 7.00 3.00 7.00 3.00 3.00 3.00 3.00 4.00
Interchange	2.00 9.00 3.00 4.00 5.00 5.00 5.00 5.00 5.00 7.00 3.00 7.00 3.00 7.00 3.00 6.00 7.00 6.00 7.00 6.00 7.00 6.00 7.00
Interchange	2.00 9.00 9.00 3.00 4.00 5.00 5.00 5.00 5.00 7.00 3.00 7.00 3.00 7.00 3.00 7.00 3.00 4.00 7.00 6.00 7.00 6.00 7.00 6.00 7.00 6.00 7.00 6.00 7.00
Interchange	2.00 9.00 9.00 3.00 4.00 5.00 5.00 5.00 7.00 3.00 7.00 3.00 7.00 3.00 7.00 3.00 4.00 9.00 1.00
Interchange	2.00 9.00 9.00 3.00 4.00 5.00 5.00 5.00 5.00 7.00 3.00 7.00 3.00 7.00 3.00 7.00 3.00 4.00 7.00 6.00 7.00 6.00
Interchange	2.00 9.00 9.00 3.00 4.00 5.00 5.00 5.00 5.00 7.00 3.00 7.00 3.00 7.00 3.00 7.00 3.00 4.00 7.00 6.00 7.00 6.00

DISKETTES

Fuji 3.5' ds/dd color disks		\$19.	0
Sony 3.5' ds/dd			
TDK 3.5' ds/dd disks		 19.	0
Centech 3.5' ds/dd disks		19	O
Centech 5 25' ds/hd disks		29	Ô

ENTERTAINMENT SOFTWARE

We have them all! Over 300 games in stock. Call for your favorite game, and check our low prices.

SHOWROOM: Circle 134 on Reader Service card.
22 Front Street, Worcester, MA 01614



The most creative music program for the most creative computer.

Finally, there's an Amiga music program worthy of Amiga musicians.

"Mis excellent. Trained musicians and composers can get coherent results very quickly, while people who don't even know what a major scale is can see intimately the effects of pitch, meter, phrasing... This is everybody's music program."

-Amiga World, April 1989

M is totally *interactive*. M's intuitive graphic interface lets you shape your music as you're listening. Which means that you can make music more easily, more enjoyably, more productively, than you ever have before.

M supports MIDI and Amiga sampled sounds. M reads and writes MIDI Files and installs as a Soundscape $^{\rm TM}$ module.

At \$199, why wait? See M at your Amiga dealer right away. Or send a \$10 check for an M demo package. Or call or write for further information.

Amiga RealTime coming soon!



Intelligent Music™
116 North Lake Avenue
Albany, NY 12206
Tel (518) 434-4110
Fax (518) 434-0308

M is a trademark of Intelligent Computer Music Systems, Inc. Intelligent Music is a registered trademark of Intelligent Music Computer Systems, Inc. Amiga is a registered trademark of Commodore-Amiga, Inc. Soundscape is a trademark of Mimetics. Inc.

Both Populous and SimCity have a few surprises, but none are nasty bugs. In Populous, I occasionally wished for a second, independent computer opponent to keep me looking over my shoulder at critical junctures and prevent outcomes from being too much a sure thing. My only laments about SimCity are its occasional rigidity (roads can curve, but bridges and tunnels can't) and the inability to mix some elements. (Try running a power line under a bridge.) Version 1.1 clears up the multiple drive and partition bugs of the original.

The real joy of these pro-

grams is the interlocking relationships. Sure, vou're a creator. but even more a facilitator, influencer and stage-setter for little computer people who act on your wishes in their own time and fashion. Of the two, I prefer the more intimate urban controls of SimCity to the sweeping omnipotence of Populous. (Populous: \$49.95, Electronic Arts, 1820 Gateway Dr., San Mateo, CA 94404, 415/571-7171, no special requirements. SimCity: \$44.95, Maxis Software, distributed by Broderbund Software, 17 Paul Dr., San Rafael, CA 94903-2101, 800/521-6263. 415/492-3500, one megabyte required.)

WAR IN MIDDLE EARTH

By Neil and David Randall

WE THOUGHT WAR in Middle Earth would be the ultimate Tolkien game, combining the best elements of the book with the most intriguing aspects of strategic war games then we started playing. (By all means, read the manual first.)

The game captures the feel of the different stages of the Hobbits' journey to Mount Doom. The dreaded Nazgul, even though you can discern their location, are fast and deadly. The trip from Hobbiton to Rivendell is frightening, as it is in the book. Detouring to find needed objects and treasures increases the Nazguls' chances of detecting you and thus heightens the immediacy of the race. While you can change the game speed (Normal, Hasty, and Very Hasty), everybody's speed does not change by a common ratio. When trying to evade the Black Riders, changing from Normal to Hasty increases the Nazguls' chances of finding you. If you leave the speed on

Normal, however, the game slows to a crawl.

To move, you order the characters to a specific place and the computer picks the best route (you can alter it if you wish). Movement commands can only be executed on the Campaign level, which shows a detailed, beautifully scrolling map of the immediate region. Most of the game is played on this level, but you'll want to spend some time watching the colorful animations on Animation level. which uses strong graphics (albeit some strange depictions of Tolkien's characters) and interesting sound effects.

When you meet characters, be prepared to work for your information. You cannot communicate with most of them, but when you can, the character will give you clues. A good feature, but they stay on the screen only briefly. If you click



InterComputing, Inc. 2100 N. Hwy 360, Suite 2101 Grand Prairie, TX 75050-1015

In business since 1984; Amiga support since 1985 Member of Dallas Better Business Bureau

We are a service oriented business offering discount prices FAX: 1-214-660-3695

Customer Service & Order Status: 1-214-988-3500

COMPLETE PRODUCT LISTING AVAILABLE Order line: 1-800-622-91

In Germany call; In Deutschland erreichen Sie uns unter 0202/755239

WE'RE YEARS OLD!

As the oldest mail order supplier of Amiga hardware & software, Intercomputing is happy to announce even lower prices as part of our 5 year anniversary celebration. We will continue to put customer service as our # 1 priority, a commitment that has turned customers into friends.

Fantastic New Prices!

MEMORY **DISK DRIVES**

• M501 A500	129.95	Master 3A	139.95
Starboard 1MB	399.95	Air Drive	149.95
Starboard 2MB	549.95	• Cal. Access	139.95
• 2MB A2000	399.95	• FDATA-10	119.95
• 4MB A2000	599.95	• FDATA-20	249.95
• 6MB A2000	799.95	• Unidrive	124.95
• 8MB A2000	999.95	Twindrive	249.95

HARD DRIVES

EXTERNAL	Supra 20MB	549.95
	Supra 30MB	649.95
	Supra 80MB	1199.95
INTERNAL	Hard Card 20 MB	549.95
	Hard Card 32MB	599.95
	Hard Card 40MB	699.95
A	Hard Card 80MB	999.95
382	Hard Card 105MB	1099.95
A 750		



Caligari Consumer 169.95 DigiPaint 3.0 69.95 VTX-On Line 59.95 The 'MAC' Emulator for the Amiga; works with all Amiga models

A-MAX

ROM-SET 139.95

129.95

3.5" Drive

MAC-compatible; for use with A-MAX 169.95

SOFTWARE Write for our **new** catalog.

To request a catalog, send your name & address to us at 2100 N. Hwy 360, Suite 2101, Grand Prairie, TX 75050-1015

As always we have the most 'customer friendly' terms: S/H \$3.95 in cont. USA; \$30.00 min. order; MASTERCARD & VISA with NO credit card fee; in Texas add 7% Sales Tax. \$12.00 shipping to APO addresses. RMA# required on all returns. 18% restocking charge. All prices subject to change.

Circle 125 on Reader Service Card.



Circle 275 on Reader Service card

HAWCOPY U1.3

The ULTRA-POWERFUL Backup tool for your Amiga tm

This utility interprets just about every aspect of the Amiga system; from standard to non-standard DOS. RawCopy V1.3 is both a standard and a parameter copier. Finally, you will be able to expand your protection to new software releases without buying a totally new back-up program.

Micro Systems International has an update policy unmatched by other copiers. MSI guarantees at least four updates per year, each packed with new parameters that require only the click of the start key.

RawCopy V1.3 is simple to use and has special features to allow the user to back-up copy protected software. A program such as RawCopy V1.3 is necessary for today's user. All too often a favorite game or utility will develop a read-write error after extensive use. RawCopy V1.3 allows you to make archival back-up copies of your software to protect your masters.

The #1 Back-up Utility

RawCopy V1.3... Setting the Standard For The Competition to Follow.

- Eliminates wheel, dongle, and manual protected software.
- Friendly and Helpful Customer and Technical Support.
- Upgrades offered every 3 months (at least 30 new parameters).
- Error Checker, Ram Buffer, Extended Cylinder, and much more.
- Copies software that no others will.

WHY SETTLE FOR JUST A COPIER ... WHEN YOU CAN HAVE





Call Today or visit your favorite dealer

(313) 654-8402 Orders and Informatiom (313) 654-8405 Technical Support Micro Systems International 1143 Monroe St. Carleton, MI 48117



Help the Hobbits.

the mouse, the information is gone, and not retrievable.

A more significant problem is the game's crashes. Animation screens are frequently obliterated by a series of data numbers, and when trying to move multiple forces we usually had complete software lockup.

Most irksome to Tolkien disciples, the game misses the point. The Lord of the Rings was about characters, not about warfare. We liked the combination of characters and armies in the game, but feel that the characters were given short shrift. Somehow, Tolkien's great humanity was lost in a sea of only partially appropriate details. (\$49.99, Melbourne House, 711 West 17th St., Unit G9, Costa Mesa, CA 92627, 714/631-1001. No special requirements.)

KIKUGI

By Shawn Laflamme

KIKUGI IS AN ancient Japanese game of concentration and strategy, brought to the Amiga by Image Tech. Unlike other current Amiga games with Japanese themes, this one is for the thinker rather than the samurai.

The disk includes 15 different game boards, all of which are variations on the same theme. The Original board contains 32 marbles arranged in a cross pattern with one empty space in the center. You jump one marble over another into an empty space, removing the one that you jumped. The idea is to remove all but the last marble, which should be left in the center position on

the board. If you succeed, you are rewarded with a fortune cookie.

All of this sounds very simple until you attempt to do it. You will quickly discover that you need to develop some sort of strategy for removing the pieces; slow down and think ahead as many moves as you can. Each move becomes more critical as you go along.

If you find that you need some practice, you can make a humble retreat to the Beginner's board, which has only 19 pieces to worry about. The other 13 boards on the disk

Quality User Supported Software works with all Amiga systems

So easy to Use

- No Computer Experience Necessary
 - ▼ Instructions for each Order
 - ▼ FREE Phone Support

So Easy to Order

- ▼ FREE Membership ▼ FREE 800-# for Orders
- ▼ FREE Same-day Shipping
- ▼ UPS 2nd Day Air Service when you need it Now!
- ▼ FREE Catalog ▼ Your Satisfaction Guaranteed

THE BEST OF THE REST

	BUSIN	iess/	HOME			
ness II	- VC-S	pread	sheet	HP-1	Oc calc	ί

- ☐ #116 Business II VC more
- ☐ #117 Business III DataBase, a bunch of great new fonts,
- RSLClock-great clock utility, AmigaSpell.

 #152 Mail Manager Store names and addresses of friends, clients, members, etc. Has sorting and printing functions.

LANGUAGES/COMMUNICATIONS

"9FORTH - Two versions of the FORTH programming language.
"99 Modem Madness! - Terminals include StarTerm, ATerm, and Kermit. Telecommunication utilities such as Archive are also here. Other types of programs and utilities are also included in the price of admission

UTILITIES

- ☐ #60 AmigaBasic Two programs that are truly of commercial quality, Cell-Animate and Graphit. Some Deluxe Paint picture files are also included.
- #97 Tutorial Disk1 A disk full of information and programs to instruct Amiga Programmers and users. Several C & ASM source files are included.
- #98 Tutorial Disk2 More of the best of Amiga Information.
- □ #129 Amiga Utilities II A hard disk backup; Target-sounds a gunshot whenever the left mouse button is pressed; Dpaint Tutor; WinSize-change window size from CLI easily, and lots more. #132 Videomaker Utilities - This disk is packed with utilities
- to make your desktop videos easier to produce and more professional looking.

 #133 DOS Helper - Designed to help you with the AmigaDOS
- commands. Supports multitasking.

APPLICATIONS

☐ #135 Applications II - Long Movie-plays several Iff pictures, creating animation. QuickBase-a mail manager DBase. Persmaita DataBase for keeping records.

SOUND/MUSIC

#18 Future Sound Demo - Another great sound demo of digitized sound. Includes the wicked witch of OZ, breaking dishes, sea gulls, car crash, ducks, others.

- □ *1 Norman Rockwell 17 beautiful digitized Rockwell paintings in this self-running slideshow presentation.
 □ *108B Juggler Famous demo that shows the beautiful
- graphics of the Amiga
- if #120 Pictures6 Great Iff and Ham pictures that can be displayed from Workbench with their own icons.

- #38 Basic GrabBag2 Around 25 programs of various types. Many of these are must-haves. At less than \$.20 each, you can't
- go wrong!

 #44 Games3 More great games including Life, Vegas Slot
- Machine, Reversi, others.

 ☐ #52 Basic Games Tons of ABasic games discover some
- treasurest
- treasures:

 #61 ABasic GrabBag Only about 100 of all types!!!!!

 #102 Sinking Island Return to Sinking Island is an excellent adventure game. Well worth the price hours of enjoyment!!! (By Terry Fike)

 #114 Potpourri X Othello, A key-shortcut program for
- AmigaDos. Various new tools, automatic printer-driver generator,
- much more.

 #118 Great Graphic Games Includes Missle Command, 3-D Triclops, Cosmo-asteroids clone, BrakeOut, Yatzee, Hack
- #121 Backgammon A great game from David Addison.
 #122 Solitaire Two versions by David Addison.
 #123 Cribbage Take on the computer.
- #124 Milestone A great computer version of Miles Bournes
- the author of Monopoly for the Amiga, David Addison.

 *125 Othello A great 3-D version of this popular game.

 *127 Wheel of Fortune Everythingbut Vannal Great
- graphics and has several challenging levels.

 #137 Blackjack A full-featured game which allows pair-splitting, double-down, etc.

 #148 Boulder Dash Very popular game with excellent graphics and has several challenging levels.
- ☐ #153 Tunnel Vision A fantastic 3-D game with excellent sound, speech, and graphics.
 ☐ #154 MAXIT A fun strategy game that you can play against
- a human or computer opponent.

 #155 Battleship Play against the computer. Has great sounds like missiles and explosions.
- GRAPHICS

#119 mCAD - A full-featured computer-aided design program.

■ #136 Graphics2 - Border Set-useful for desktop publishing and video, making cards, coupons or menus, and your own

- *144 Christmas Animations 10 beautiful scenes and graphics with Fantastic sound.
 *145 Animations 3 More Great Animations. 3 very good
- demos plus 3 workbench pictures and Blobs.

THE TOP 10

- #23 Monopoly Excellent color and graphics in this adaption of the famous board game. Play against computer opponents. This program is definitely of commercial quality a must! Requires 512K.

 #27 Amoeba Invaders This fantastic game plays just like the original arcade classic, Space Invaders, but with ephaned color and digitized equal. You'll find more
- enhanced color and digitized sound. You'll find more
- ennanced color and digitized sound. Four find more great games on this disk.

 #128 Space Games Cosmoroids (like asteroids) and Gravity Wars highlight this disk just full of games.

 #131 PacMan *87 Better than the original. Great graphics, sound, and options. Keeps a top-10 list. May be
- our most popular disk.

 □ #139 Bull Run Great Civil War strategy game. Disk also includes a small Data Base, Reminder, Grocery Construction Set, Will Kit, Label Maker programs.
- #142 9-Bert Fashioned from the popular Q-Bert game. Good graphics. Other Programs include MakeLabel, Nutty 9 game, Softball Status program, Hustle!
- musical instruments. #37 Business Programs 1 - The programs include an address book, an amortization program, talking mail
- manager, label printer, and much more. ☐ #140 Virus Killer - End the worry of having the virus on
- your disks. Excellent utility program.

 #146 Calendar A very good personal calender! For special events, bill-tracking, etc.

For SUPPPORT or INFORMATION call (503) 826-7679

NEW ADDITIONS

- #158 Sinking Island II (TWO Disk Set!) By Terry Fike -Great text graphic adventure. 4 map scenes, underground chambers and much more.
- #160 Pilot Learn all you need to know about Alaska with this
- pilot demo.

 □ #161 Sorry Like the board game. Also includes bully and
- #162 Video Poker All the fun of Vegas without the risk!
- #163 Money & Trix Grab the money, avoid the tax collector.
- Also Trix, an arcade like game.

 #164 Bank'in By Hal Carter, Keep your account in perfect
- □ #165 Wheel with Vanna Play against two computer opponents. The game with everything, including Vanna.
 □ #166 HEdit A text editor. Try this one, you'll never use Ed
- #167 Public Domain Catalog By Hal Carter, Keep track of all your disks.

 #168 Grocery List - Complete itemized printout of all your
- grocery items.

 ☐ #169 Ledger Track income and expenditures. Great for
- small businesses and clubs.

 #171 Escape from Jovi Escape from underground cave
- system of Jupiter.

 #173 Mastermind Break the hidden code. A game for
- people who like a challange.

 #174 1 or 5 Stay Alive A dice game for the daring, Don't get too greedy or you'll lose it all.

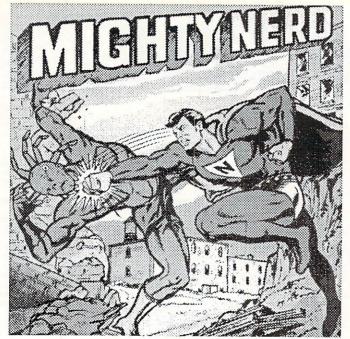
 #175 ART Another great graphic disk. Volcano with burning
- lava. Ocean scene (sunrise to sunset)
- ☐ #176 Galactic Worm Great arcade maze like game. Also
- ☐ #177 Kamikazi Chess Lose all your pieces to win!

Name Disks Ordered _ Address ☐ SHIPPING Free U.S. Canada - 25¢ per disk Foreign - 50¢ per disk City State___Zip_ COD (U.S. ONLY) Phone (. (add \$4 if you require COD) Visa/MC U.P.S. 2nd Day Air (Add \$3) Sig. TOTAL ☐ Send Catalog Exp. Date ☐ Check/MO ☐ Visa/MC ☐ COD

Software Excitement!

P.O. Box 5069 • Central Point, OR 97502

ORDER TODAY 800-4444-54



Once upon a time, a nerd put on a strange belt and became the MIGHTY NERD! For MN to conquer the evil supervillains, you must provide and use the belt's superpowers. MIGHTY NERD is an Arcade/Strategy style game with action graphics and digitized sound. A huge playing map allows you to teleport, fly, swim or run through the adventure. A hero maker allows you to edit the superpowers of the Mighty Nerd. The editor also allows you to edit the powers of the supervillains making the game more exciting and challenging.

Amiga, IIGS, MacPlus/SE versions \$49.95 Macintosh II version \$59.95 Plus postage and handling. ISM, Inc. PO Box 247 Phoenix, MD 21131 (301) 527-1988

Circle 172 on Reader Service card.

AC/BASIC™ V1.3 — NEW

Easy to use compiler is **very fast** with great **graphics**. Plus, AC/BASIC is the only BASIC compiler for Amiga that is **compatible with the AmigaBASIC** interpreter so your existing programs can be compiled with no changes and run up to **50x faster**.

Easy to use documentation is indexed and includes over **200 examples** on disk: plus a full **spreadsheet** written in AC/BASIC and **HAM** graphics examples

Extensions include: **SELECT CASE**, **BLOCK IF**, **STATIC** arrays. **Recursive** subprograms. Create stand-alone applications (no redistribution fee) NCP \$195.

AC/FORTRAN™

Mainframe quality, full feature ANSI FORTRAN 77 compiler includes: Debugger, Linker, Library Manager, Runtime Library, IEEE math, and C interface. Supports Complex numbers, Virtual arrays, Overlays and Linking. Not copy protected. \$295.

68020/68881 version also available \$495.









Telephone orders welcome

2781 Bond Street, Auburn Hills, MI 48057/(313) 853-0050

Amiga trademark of Commodore/Amiga. Microsoft trademark of Microsoft Corp

offer some interesting variations: Classic Marble has 104 pieces on a marble board; Sea Shells gives you 28 shells arranged on a beach; Short Circuit gives you a taste of contemporary Japan with 36 chips arranged on a circuit board; Insanity has 332 pieces. Other boards mercifully allow diagonal moves.

Options allow you to back up one move or preview all possible moves; the Meditate option gives you a rest and lets you review your jumps. You can play a solitaire or two-player game. You can the Insanity board or the Meditate option to load on a 512K A1000.

Kikugi has colorful, Amigaquality graphics. It has stereo digitized sound effects. It has 15 game boards. It's challenging. But Image Tech has made much of little here. All you're really doing is jumping marbles. You can buy games that will let you fly a helicopter, pitch to Babe Ruth, conquer a galaxy, or save a city. Kikugi doesn't have what it takes to keep most people intrigued for very long. Besides, these are frustrating little games.



Hop, skip, and jump to win.

also watch the computer play itself, which is a rather silly option because the computer plays worse than most humans, so you won't glean any useful strategy hints from watching it.

Image Tech recommends a minimum of 512K to run the program, but I couldn't get Unless you have the patience and concentration of a Shinto priest, you are probably going to lose very often. And he who often loses grows impatient and loads another game. (\$39.95, Image Tech, 9276 Adelphi Rd., Suite 102, Adelphi, MD 20783-2029, 301/439-1151. No special requirements.)

SPEEDBALL

By Peter Olafson

WHAM! SPEEDBALL IS the essence of WHAM.

Speedball is a sport of the 21st century—a synthesis of hockey and handball played in

a metal-walled arena with a metal ball by teams of five metal-armored players. The layout is familiar: a central ball

CHRISTMAS SPECIALS! STOCKING STUFFERS UNDER \$30 Doug's Color Commander Dinosaur Discovery Data Disks Talking Coloring Book Falcon F-16 Populous Sim City Dungeon Master Marble Madness 29.09 29.09 29.09 18.99 11.00 17.25 18.99 13.00 19.99 18.50 19.99 18.50 19.99 15.99 Talking Coloring Book Lexcheck Art Gallery Disk Interchange Objects #1 Zuma Fonts Vol. 1-4 (ea.) 4-in-One Games Arkanoid Bridge 5.0 Hole-In-One Golf Ports of Call TeleGames California Challenge 29.09 29.09 12.50 24.00 28.00 29.09 21.25 27.07 29.99

となるとのなるとなるとなるとなるとなるとなるとなるとなっているとうとなるとなっているとうと

ANIMATION & TITI	LING
3-Demon	69.47
Animate 3D	104.22
Animator w/Images	42.00
Animator: Apprentice	182.00
Animator: Jr	54.91
Broadcast Titler	193.00
Deluxe Video 1.2	90.32
Director, The	48.62
Easy Titler	31.88
Fantavision	
Forms in Flight II	83.37
Movie Setter	69.47
Page Flipper Plus F/X	102.00
Pro Video Plus (Gold)	193.00
Sculpt-Animate 4D	391.00
Sculpt-Animate Jr	104.00
TV*Text	55.00
VideoScape 3D	109.00
Zoetrope	88.00
BUSINESS & HO!	ME

MANAGEMENT	
2+2 Home Management	69.47
Accountant, The	186.50
Acquisition	193.00
Analyze 2.0	69.47
Excellence	159.00
File II	69.47
Financial Plus	193.00
Haicalc	41.67
Investor's Advantage	64.47
Logistix	103.56
Maxiplan 500	93.25
Microfiche Filer Plus	115.99
Money Mentor	59.00
Organize	55.57
Paymaster Plus	104.22
Phasar 3.0	62.29
Rollabase Plus	62.52
Superbase Personal II	98.00
Superbase Prof. 2.0	243.22
Superplan	98.00
Tax Break	55.57
VIP Professional	104.22
Works Platinum, The	205.69
Write N File	69.47

CAD & MODELING

Logic Works 2.0	189.00
Modeler 3D	69.47
Sculpt 3DXL	125.07
Ultra CAD	173.72
EDUCATIONAL	
AB Zoo	24.00
All About America	38.95
Birds & Bees ea	41.67
Calculus	31.88
Chicken Little	18.82
Decimal Dungeon	32.25
Designasaurus	32.25
Dinosaur Discovery Kit	25.77
Discrete Math	31.88
Doug's Math Aquarium	55.57
First Letters & Words	33.00
First Shapes	33.00
Fraction Action	32.25
Galileo 2.0	45.00
Ghostly Grammar	31.88
Grade Manager	58.95
Great States II	25.00
Kidtalk	25.77
Kinderama	32.25
Learning Curve	51.95
Linkword Languages ea	20.50
Little Red Hen	20.82
Match-It	25.99
Math Talk/Fractions ea	26.99
Math-A-Mation	64.95
Mavis Beacon Teaches	
Typing	31.24
Pre Calculus	31.88
Quiz Master	49.90
Read-A-Rama	31.88
Social Studies	13.87
Space Math	29.99
Spellbound	25.50
Talking Animator	39.00
Three Little Pies	20.82

Inree Little Pigs	20.82
Trigonometry	36.88
Word Master	32.50
World Atlas	41.67
FONTS & CLIP AI	RT
Arch. Design Disk-Sculpt/	
VScape	23.00
Asha's CalligraFonts	62.52
Broadway Font	34.75
Business Set	55.60
CAD Parts for	
IntroCAD/Draw	48.65
Clip Art #1-8 ea	13.84
ComicSetter-Funny/	
Scifi/Heros ea	23.00
Design Disks-Sculpt/	
VScape ea	23.00
Designer Databases-Bus./	
Home ea	48.62
Future Design Disk-Sculpt/	
VScape ea	23.00
Helvetica Font	34.75
Homebuilders ea	56.30
Human Design Disk-Sculpt/	
VScape ea.	23.00

Kara Fonts-Headlines	51.00
Kara Fonts-Headlines 2/	
Subheads ea	48.62
Lion's CalligraFonts	41.67
NTF Fonts-Comic/Fancy/Ros	man/
Sans ea	55.57
P.S. Dot Matrix Font	
Disk 1-5 ea	25.77
P.S. Postscript Font	
Disk A-C ea	25.77
ProFonts Vol. I/II ea	23.00
Studio Fonts	30.00
Times Roman Font	34.75
GAMES	
4th and Inches	29.00
Aaargh!	23.00
Adventures of Sinbad	32.00
Afterburner	32.99
Alien Syndrome	33.00
Android Decision	24.33
Andromeda Mission	25.75
Apple 18	31.24
Arctic Fox	25.77
Art of Chess	22.29



-	
THE ULTIMATE PAI	NT
PROGRAM \$64.00)
Autoduel	27.00
Axe of kage	31.88 23.00
Baal	31.24
Bad Dudes	31.88
Ballyhoo	25.77
Bards Tale	35.99
Bards Tale II,	99199
Destiny Knight	41.50
Batman	31.00
Battle Chess	32.25
BattleDroidz	23.00
Battletech	32.50
Berzerk 3	23.00
Better Dead Than Alien	21.89
Black Jack Academy	25.77
Black Shadow	22.29
Blitzkrieg Ardennes 1mb	38.95
Borrowed Time	31.24
Bowling	13.84
Breach	25.77
Bubble Bobble	22.77
California Games	25.77
Capone	25.77
Captain Blood	32.32
Carrier Command	30.24
Casino Fever	25.77
Champ Baseball/Golf ea	25.77
Champ Basketball/	
Football ea	31.24
Charon 5	25.77
Chessmaster 2000	32.25
Chrono-Quest	33.72
City Defense	13.84
Combat Course	25.77 25.77
Craps Academy	25.77
Crash Garrett	25.77
Crazy Cars	25.77
Crossword Creator	31.88
Cutthroats	10.34
Cyber Complex	23.00
Deathbringer	25.77
Deep Space	20.82
Defcon 5	25.77
Defender of the Crown	31.88
Deja Vu I/II ea	31.88
Descartes	23.00
Destroyer	25.77
Devon Aire Hidden Dia	31.88
Dominos	17.34
Double Dribble	25.77
Downhill Challenge	23.00
Dragon's Lair	41.67
Dream Zone	32.00
Earl Weaver Baseball	31.88
EbonStar	25.77
Echelon	31.24
mar.	

Ellie
Empire
F-15 Strike Eagle
F-15 Strike Eagle
F-A-18 Interceptor
Facry Tale Adventure
Federation
Ferrari Formula One.
Feud
Final Assault
Final Mission
Fire and Forget
Fire Blaster
Fire Fower
Fire Zone
Flight Path 737

Fire Zone
Flight Path 737
Flight Sim. Scenery
Disks ea.
Flight Simulator II
Fortress Underground

31.24 31.88 25.77 31.88 31.88 31.88 31.88 13.87 25.77 23.00 25.77 6.92 17.34 23.00 17.34

ge	13.84	
ge	-	
		-
Foundation's Waste		23.00 25.77
Fright Night		
Galactic Conquerer		31.24
Galactic Invasion		17.34 17.34
Galaxy Fight		
Ganymeds	***	20.82 31.88
Gauntlet		31.24
		25.77
Gee Bee Air Rally		
GFL Champ Football		13.87 25.77
Global Commander		13.87
Gnome Ranger		
GO for the Amiga		25.77 25.77
Gold Medal Volleyball		25.77
Gold of the Realm		25.77
Gold Rush		13.87
Goldrunner I/II ea		25.77
Grand Slam Tennis		31.88
Grid Start		17.34
		41.67
Gridiron		31.24
Guild of Thieves, The		36.97
Gunship		25.77
Hacker II		31.88
Heavy Metal Land Comb		31.24
Heroes of the Lance		25.77
Hitchhiker's Guide		20.82
Hitchniker's Guide		25.77
Hollywood Hijinx		31.24
Hunt for Red October .		31.88
Hybris		25.77
		31.88
Ice Hockey		31.24
Indiana Jones Temp Dr		25.77
Indoor Sports		31.88
International Soccer		25.00
Into the Eagle's Nest .		25.77
Jack Nicklaus' Golf		31.88
Jet		31.88
Jinxter		25.77
Joker Poker		24.72
Journey to Center Eart	h	25.77
Kampfgruppe		41.67
Karate Kid II		25.77
Karting Grandprix		17.34
Kikugi		18.00
King of Chicago		31.88
King's Quest I/II ea		31.88
Lancelot		28.00
Land of Legends		31.88
Leather Godesses Phob	05	10.34
LeatherNeck		25.77
Leisure Suit Larry ea		25.77
Lord of the Rising Sun		31.88
Lottery Magic		17.34
Lurking Horror		25.77
Mad Libs		13.84
Marie I. I. S. Diske	**	91 00

Gold of the Realm	25.77 25.77
Gold Rush Golden Pyramid, The Goldrunner I/II ea. Grand Slam Tennis	13.87
Goldrunner I/II ea	25.77
Grand Slam Tennis	31.88
Gridiron Guild of Thieves, The Gunship Hacker II	31.24
Gunship	36.97
Hacker II	25.77
Harrier Combat Sim	31.55
Hacker II Harrier Combat Sim Heavy Metal Land Comb. Heroes of the Lance Hitchhiker's Guide Hollywood Hijinx Hostage Hunt for Red October Hybris.	25.77
Hitchhiker's Guide	20.82
Hollywood Hijinx	25.77
Hunt for Red October	31.88
Hybris	25.77
Ice Hockey	31.88
Ikari Warrior	31.24
Indoor Sports	31.88
Hunt for Red October Hybris Ice Hockey Ikari Warrior Indiana Jones Temp Dm Indoor Sports International Soccer Into the Eagle's Nest Jack Nicklaus' Golf	25.00
Into the Eagle's Nest	25.77
Jack Nicklaus' Golf	31.88
Jet	25.77
Joker Poker	24.72
Jet	25.77
Journey to Center Earth Kampfgruppe Karate Kid II Karting Grandprix Kikugi King of Chicago King's Quest I/II ea. Lancelot Land of Legends Leather Godesses Phobos Leather Foodesses Phobos	41.67
Karting Grandnrix	25.77 17.34
Kikugi	18.00
King of Chicago	31.88
King's Quest I/II ea	31.88 28.00
Land of Legends	31.88
Leather Godesses Phobos	10.34
LeatherNeck	25.77 25.77
Lord of the Rising Sun	31.88
Lottery Magic	17.34
Lurking Horror	25.77
Leather Godesses Phobos LeatherNeck Leisure Suit Larry ea. Lord of the Rising Sun Lottery Magic Lurking Horror Mad Libs Magic Johnson's Bktball	13.84 31.88
nage someon control	
Master Ninia: Shad. War.	
Mean 18	31.24 25.77 25.77
Metal Gear	25.77
Mike the Magic Dragon	
Military Simulator	31.88
Mind Walker	31.88 20.82
Mind Shadow	31.24
Moebius	41.67
Mind Walker Mindroll Mind Shadow Moebius Neuromaneer New York Subway Ninja Mission Obsession Offshore Warrior Ogre One on One	31.88 25.77
Ninia Mission	13.87
Obsession	20.82
Offshore Warrior	25.77
One on One	20.82 13.87
Oo-Topos	13.87
Out Run	31.88
P.O.W. Paladin	25.77
Phantasie	25.77 25.77
Phantasm	23.00
Pinball Wizard Pioneer Plague	23.00 25.77
Platoon	31.24
Platoon	31.88
Power At Sea	25.77
Power At Sea Powerdrome Pub Games	23.00
Q-Dall	20.02
Qix	25.77 31.88

Racter	31.24
Realm of the Warlock	23.00
Renegade	25.00
Return to Atlantis	32.00
Road Raider	31.88
Roadwar 2000	25.77
Robbeary	17.00
Rocket Ranger	32.00
Roger Rabbit	31.24
Rogue	25.77
Romantic Enc./Dome	25.77
Rush'N Attack	25.77
S.D.I	31.88
Sargon III	31.88
Shadowgate	31.88
Shanghai	25.7
Sherlock: Crown Jewels	25.7
Shogun	41.6
Silent Service	25.7
Sinbad	31.8
Skyblaster	23.0
Skychase	25.7
Skyfox II: Cygnus Conf	31.8
Slapshot!	41.6
Slaygon	25.7
Snake Pit	23.0
Soccer ,	25.7
Solitair	25.7
Sorcerer	10.3
Space Battle	13.8
Space Harrier	31.8
Space Quest I/II/III ea	31.8
Space School Simulator	23.0
Space Shuttle II	25.7
Space Station Oblivion	32.0
Speedball	25.7

	31.24	
	23.00	
	25.00	
	32.00	
	31.88	
	25.77	
•	17.00	1
•	32.00	
•	31.24	
	25.77	
	25.77	
•	25.77	
	31.88	
	31.88	
	31.88	
	25.77	
	25.77	
	41.67	1
	25.77	
	31.88	
	23.00	
	25.77	
	31.88	1
	41.67	
	25.77	1 4 1
	23.00	
	25.77	
	25.77	
	10.39	Zak
•	13.87	Zer
	31.88	Zor
	31.88	Zyn
	23.00	
	25.00	



Zak McKracl	ken								31.24
Zero Gravity								Ġ.	20.82
Zork Trilogy									48.62
Zynaps									23.00
GRAPI	110	C	;	8	ŧ	P	A	I	NT
Amiga Graph	uics	S	ta	ırı	1	G	t.		72.00
Analytic Art									37.25

Call on Sunday-ask about SUNDAY SPECIALS!

ellbreakerorting News Baseball ar Warsarglider IIarglider II	25.77 25.77	Award Maker-Educational/ Sports ea
ar Wars		
arglider II		Award Maker Plus 31.88
	31.24	B Paint 25.77
	25.77	C-Light
r Crazy	23.00	Caligari Jr 138.31
reet Cat	25.77	Deluxe Paint III 99.00
reet Sports Baseball/		Deluxe Photo Lab 104.22
asketball/Soccer ea	25.77	Deluxe Productions 139.84
per Cars	13.87	Desktop Artist 18.82
perstar Ice Hockey	31.88	Digi-View Gold 138.97
spect	10.39	Express Paint 3.0 90.27
spended	10.39	Fine Print 31.88
ord of Sodan	34.27	Graphics Studio 41.67
des Arab. Knights	31.88	My Paint 31.88
inglewood	25.77	PageRender 3D 94.17
urgis	25.77	Photon Paint II 98.00
ss Times	25.77	Pixmate 45.62
le Epic	26.00	Turbo Silver 3.0 128.00
le War II	25.77	TV*Show 63.00
mple of Apshai Trilogy	13.87	Ultra Design 277.97
nth Frame	25.77	Video Effects 3D 138.9
ra Questron		MUSIC
errorpods		MUSIC
st Drive I/II ea	31.24	ADrum 51.5
tris		AudioMaster II
nai Boxing		C-Zar 126.3
nexder		Deluxe Music Const. Set 69.4
hree Stooges, The		Dr. T's-ALL CA.L.
hud-Ridge		Dynamic Drums 55.5
hunderblade		Dynamic Studio 138.9
me Bandit		Encore
orch 2081		Hot & Cool Jazz 20.2
otal Eclipse		It's Only Rock & Roll 20.8
rinity		MIDI Magic 97.2
urbo		Music Studio 2.0
V Sports Football		Music X
wilight Zone		Pro MIDI Studio 124.2



Christmas Special! "Getting Started with Your Amiga"

The Video Tape all about your Amiga! CLI • Workbench • Peripherals • Viruses • And much more! Special introductory price - \$29.95 (VHS only)

Ultima III/IV	25.77	Pro Sound Designer 111.17
Undersea Commando	31.88	Sonix
Uninvited	31.88	Soundlab Amiga 202.00
Universal Military Sim	31.88	SoundQuest-All CA.LL
Vampire's Empire	31.24	SoundScape Utilities I 34.00
Video Vegas	23.00	SoundScape Utilities II 42.00
Viper Patrol	10.42	Synthia 59.50
Vyper	20.82	Texture 138.97
War In Middle Earth	31.88	
Warlock	23.00	PAGESETTING
Wayne Gretzky Hockey	32.00	PAGESETTING
Winter Edition Games	25.77	City Desk 1.2 104.22
Wizard Wars	25.77	Flow 63.00
World Class Leader Brd	25.77	PageSetter 104.22
World Games	25.77	Professional Page 1.2 225.00

ublisher's Choice	129.00 138.97	B.A.D. Accelerator
Shakespeare	146.38	Butcher 2.0
PROGRAMMIN	G	C.A.P.E. 68K Assem. 2.0 CLI Mate
AC/Basic	134.00	Custom Screens
AC/Fortran	198.00	Cygnus Ed Pro
AC/Basic	134.00	DevPak Amiga 2.0
Amiga C	103.56	Disk Mechanic
ARexx	31.88	Disk Recovery Toolkit
Assembler Language		DisKwick
Assembro		DOS-2-DOS
Aztec-C Professional	128.00	Enhancer 1.2
Basic Professional Pak	138.97	Extend
		EZ Backup
C Language		F.I.F. Module
Compiler Code, The	. 55.57	T.I.I. Module TITTETT

Call for our FREE Hardware/Software CATALOG!

Developer's Toolkit 31.88	FACC II
Expert System Kit 48.62	Gizmoz 2.0
Fortran Pro. Pak 138.97	Gomf 3.0
GFA Basic 90.00	Grabbit
HISoft Basic 103.17	Inova Tools I/II ea
J Forth 69.47	JetSet Laser Utility 1.3
Lattice C ++ 297.00	Key to C
Lattice C 5.0 197.00	Laser Up! Plot 1.2
Lattice C Compiler 340.00	Laser Up! Print 1.2
Lisp	Laser Up! Util. Vol. 1
Macro Assembler 69.47	Lazerscript
MenuMaker	Lint
Metascope Debugger 59.00	Magellan 2.0
Modula-2 Compiler 208.47	Marauder II
Modula-2 Devel 103.56	Mirror Disk Copier
Multi-Forth 61.86	Nag Plus 3.0
Pas2Mod 69.47	Powerwindows 2.5
Program Caller 41.67	PrintMaster Plus
Prog. Analysis Toolkit 41.67	Project D
Runtime Package 69.47	Quarterback
Sort Utility 41.67	Raw Copy 1.3
Source Level Debugger 49.13	Superback
Symbolic Debugger 41.67	Ultra DOS Utlities 1 .
T Shell 28.70	Zing!
True Basic 69.47	Zing! Keys
Truestat	
UCSD Pascal 69.47	WORD PROC
UCSD Pascal Prof. Pak 138.97	WORD FROC
Ultra DOS 38.00	Beckertext
WShell	Calligrapher 1.05
TELECOM	Critic's Choice (3 in 1
	Dynamic Word
Amigaterm 20.82	Gold Spell II
Atredes BBS 97.22	Kindwords 2.0
BBS-PC 65.00	Pen Pal
Dr. Term Professional 69.47	ProScript
On-Line Platinum 64.00	ProWrite 2.0
UTILITIES	Scribble! Platinum

A-Max Emulator AmigaDOS Express . AmigaDOS Toolbox 21.00 48.62 27.77 20.82 55.57 27.80 22.00 30.58 68.81 30.58 28.00 63.11 117.99 25.77 31.98 49.57 58.52 31.00 38.67 51.57 37.00 55.57 31.88

104.22 90.32 173.72 104.22 31.24 64.47 104.22 31.88 77.00 104.22 55.57 179.00 69.47 55.57

We'll meet or beat any advertised price in this issue of this magazine!

41.67

Corp. Office (818) 889-3633 • FAX (818) 889-5175

WE PAY SHIPPING': All orders delivered to addresses within the

me. Pat SHEPTING: All orders detirered to addresses within the continental United States with a purchase value of \$100 or more are shipped FREE via UPS regular service. Overnight, 2-day service and other special shipping is available. Ask for details. No surcharge for Visa or MasterCard orders, 3% for American Express. C.D. and \$3.00, per product. C.O.D. orders are for cash, cashier's check or money order only. California residents add 6.5% scaler cash. 6.5% sales tax

OUR POLICY: We offer over 1,000 products for the Amiga. If you don't see it listed, please ask! Call around, then call us!

We accept Visa and Mastercard with no surcharge, American Express add 3%. Your credit card is not charged until we ship

your order. If we must ship a partial order, we'll pay the UPS ground shipping costs to complete the order.
Upon receipt and approval, personal and company checks may clear within 3 business days on prepaid mail orders. Call for a free hardware and software catalog.
Orders are processed and shipped the same day whenever possible.
International shipping—NO PROBLEM!
Exchanges and returns—NO PROBLEM!
Call: 1-800-525-TDAY U.S. and Callfornia.
Pax: (818) 889-8173
Corporate Offices: (818) 889-3633.

► Fax: (818) 889-5175 ► Corporate Offices: (818) 889-3633.

7-Day Software tries to carry only quality products. No war-ranties or representations as to the quality or useability of the products are made. It is the responsibility of the manafacturer to provide support for its products. Topus Software will gladly replace damaged merchandise at no charge. Call for details. Prices subject to change without notice.

EXPRESS AND UPS

7-DAY ACCEPTS





GENEALOGY Has Never Been So Easy

Your Family Tree 2.0



The first Genealogy Database for the AMIGA is now even better!

Multiple windows keep data organized. Use the mouse, pull-down menus, or keyboard commands for easy entry, editing. and viewing of data. User selectable options such as autocapitalization and spell-checking.

Information stored includes: Surname, 3 Given names, Gender, Reference ID, Residence, Occupation, Religion, Names & Places of: Birth, Christening, Death, Burial, Connect Individual to Parents, Spouses, Children, Dozens of Reports, Extensive SEARCH functions, Link individuals and Family groups to IFF Pictures, Use ANY word processor for unlimited size Memo files.

Keep Track of 16 Million Individuals, 16 Million Family groups, Maximum of 8 Spouses per individual. 40 Children per Family.

System Requirements: Workbench 1.2 - 1 MB RAM - 1 Floppy Drive Recommended: Hard Drive, Printer, Video Digitizer

MicroMaster Inc. Retail: \$69.95 Plus Shipping

1058-A Brodhead Road Aliquippa, PA 15001 [412] 775-3000

Circle 167 on Reader Service card.

DevDisks by DevWare are the Public Domain Library of choice for the serious Amigaphile!!!

Public Domain by DevWare

Only \$5.95 Each

Each disk contains 7 - 10 of the best Public Domain programs available. The first two letters of each disk indicate the orientation of the disk; DD# intermediate to advanced user - often contains source code, WB# general interest - all programs can be run from the workbench, and FD# games and entertainment. * Order our disk catalog and receive a coupon good for a free volume.

DD17: RAYTRACING - learn about raytracing the inexpensive way; DBWRender - Ray tracing, RayTracedPics, C source includer DD44: ARP and DiskSalv - On this disk you will find the complete ArpRei3.0 This is the official AmigaDOS Resource Project (ARP) release 1.3. ARP makes many improvements to AmigaDOS and makes your system easier to use from the CLI, and DiskSalv 1.3 - By far the best disk and the recovery reporam available.

DD45: AREXX PROGRAMS - Several useful wb1: GRAPHICS and PLOTTING - Several web: GHAPHICS and PLOTTING - Several neat graphic and mathematical plotting routines are include; Plot - A 3D mathematical function plotter. Plots any user defined function, Scenery -This generates fractal landscapes, Surf -Makes bezier surfaces of revolution. It produces

awesome pictures of ofobjects one could turn on

awesome pictures of fobjects one could turn on a lathe And others

WB3:General - This disk is cramed full of programs, including; FastDisk - optimizes the chaotic disk structure, Introducer - create your own scrolling demost, Plans - Plans is a high speed, versatile drafting program, Zerg(v1.00) Zerg is an Utilima type clone with a nominal plot, ARP 1.3 with Ash, and others!

WB5 - Fonts #1 - Several fonts (35) for the Amiga, also some PageStream fonts, and ShowFont - a font display program.

ShowFont - a font display program. FD5: Tactical Games - BattleForce(3.0); A game that simulates combat between two or more giant, robot-like machines BullRun - a Civi

war battle game, Metro - you play the role of a city planner.. Very good Amiga version of Kingdom, Golden Empire, Etc. Very very habit

forming. FD7: PACMAN - This disk contains several pacman type games including; PacMan87, and

FD8: Games! - This disk is full of games, game

FDB: Games! - This disk is full of games, game hints and a few game editors (cheat programs) also including: Antepenult - The best PD Ultima type going, and others.
FDB: Moria - Similiar to Larn and Hack. Takes up the hole disk. Excelent. Play time several days!
FD10: Hack - A dungeon adventure game. Considered a must have classic. This is the second release of this game on the Amiga. Originally a UNIX game. Great Amiga graphic interface. Fills the hole disk. Play time several weeks!

Special Offer Anti-Virus

Now only \$19.95

INFO magazine gives it FOUR STARS (Sept.,89). At this special price, you too can own the best virus protection money can buy. Satisfaction guaranteed!

Please send me the following: Enter disk id(Ex. DD17,FD5,WB3...)

To Order: Send check or money order to the address below (or call). Credit card users include Account number, Expiration date, Signature, and Phone number. A minimum of \$19.95 on all credit card orders please.

Total disks__X(\$5.95) \$ Disk Catalog* (\$2.50) \$ Anti-Virus (\$19.95) \$ CA sales tax 6.5% \$

Total Due \$

DevWare, PO Box 215, La Jolla, CA 92038, (619)673-0759

Circle 398 on Reader Service card.

launcher (in lieu of a puck dropping ref), goals at either end of the playfield, and high walls for ricochets. The ball looms up on the screen when it is airborne. You can tackle, too. Against the more powerful computer opponents, however, hanging on to the ball is a challenge. You can play

rious, you might not even notice the floating tiles. Some are money, which you can spend after the final whistle to improve your stats, tamper with your opponent's or bribe officials. (Officials in future sports are not very honest.) Some are power tiles that you can use immediately for tackling, pro-



Choose your team and captain.

against a friend or the computer in elimination tournaments or leagues of up to 100 weeks.

A few elements step in to prevent this from being a futuristic hockey-handball hybrid or a member of the Sports in Hell series. One is the warp tunnel in the arena's side walls, which permits a ball thrown in from one side to come out the other. Less helpful are the bounce domes that repel the ball and appear in various configurations. Often the action is so fast and futection against tackling, freezing the opponent, and so on.

About the only drawback is that the digitized sound of cheering on my occasional goals comes through muffled sometimes. I'm no great fan of sports invented for the computer, but Speedball, an English import, is a pip. What else can I say but WHAM, WHAM, WHAM! (\$39.95, Spotlight Software, distributed by Cinemaware, 4165 Thousand Oaks Blvd., Westlake Village, CA 91362, 805/495-6515. Joystick required.)

GRAND PRIX CIRCUIT

By Peter Olafson

THE ONLY THING I've consistently been able to drive on my Amiga is myself crazy-until Grand Prix Circuit, which includes many of the better as-

pects of previous driving games and eliminates many of their potholes. The biggest ob-▶

Payment Enclosed

Please charge my Master charge Visa

* Sensational Service With Sprite Technology

ORDERS: 800-634-9315

Customer service & order status: 404-535-8806 HOURS: 9-6 MON-FRI EST

VISA, MasterCard, AmExpress cards accepted. No credit card surcharge. Your credit card is not charged until we ship.

HARDWARE Amiga 500......CALL Amiga 20M HD/500\$649 Amiga 501 RAM Card.....\$159 Amiga 520 Video Adapter.....\$40 Amiga 1010 Ex. Drive\$189 Amiga 1084 Monitor.....\$309 Amiga 2000......CALL Amiga 2000HDCALL Amiga 2010 In. Floppy......\$159 Amiga 2058/2M RAM.....\$639 Amiga 2088 Bridgeboard\$499 Amiga 2286 Bridgeboard\$1125 Amiga 2090A SCSI Controller\$299 3.5" In. Floppy/Chinon.....\$112 3.5" Ex. Floppy/C.A.....\$142 Amax Mac Emulator\$125 Amax/Drive/Chips.....\$499 CSA Turbo/500CALL Framebuffer w/Capture......CALL GVP 20 Hardcard\$639 GVP 30 Hardcard\$686 GVP 40Q Hardcard.....\$799 GVP 45 Hardcard\$799 GVP 80 HardcardCALL GVP 100 HardcardCALL GVP 68030 Accelerator......CALL Microbotics 8UP.....\$172 Microbotics Hard Frame\$246 Microbotics StarB2/512KCALL Microbotics StarB2/1M.....CALL Microbotics StarB2 SCSI\$98 Microbotics StarB2 MFM\$77 Microbotics StarB2 MFM/881\$274 Microbotics StarB2/A500CALL Microbotics 501 RAM/0K\$60 MicroWay Flicker Fixer\$489 Phoenix 20M HD/500.....\$579 SuperGen\$699 SuperGen 2000s......CALL Supra Interface Kit/2000\$219 Supra 2400 Modem\$124 Supra Internal Modem\$144 Supra 2M/8M RAM 2000\$450

SOFTWARE	
ANIMagic	\$63
ARexx	\$29
A-Talk III	\$63
Aztec C Developer	\$199
Broadcast Titler	
Calligrapher	\$72
Deluxe Paint III	
Desktop Budget	
Digi-Paint 3	
Draw 2000	
Dunlap Utilities	
Excellence	
Fantavision	
HiSoft BASIC Professional	
Intro CAD	
InterFont	
LV Backup	
Math Wizard	
Maxiplan Plus	
Modeller 3D	
On Line Platinum	
Pagestream	
Pen Pal	
Performer/Elan	
Photon Paint 2.0	\$94
Pixil Script	
Professional Draw	
Professional Page	
Project 'D'	\$32
ProVideo Gold	\$195
Prowrite 2.0	\$78
Quarterback	
Sculpt Animate 4D Jr	\$94
Videoscape 3D	
Videotitler	\$93
Word Perfect	
Workbench 1.3 Update	
Works Platinum	\$156
· ·	

	ĺ
GAMES	
32 Satman\$32	
Capone\$25	
Oragon's Lair\$39	
Oungeon Master\$25	
F/A-18 Interceptor\$33	
alcon Mission Disk\$19	
Gunship\$34	
Heroes of the Lance\$26	
ndiana Jones/Last Crusade\$25	
Populous\$38	
Rocket Ranger\$32	
Star Wars\$25	
Test Drive II\$28	
MUSIC WARE	
A.M.A.S. MIDI/Sampler\$127	
Audiomaster II\$62	
Deluxe Music\$65	
Dr.T's Copyist Pro\$165	
Dr.T's DX Heaven\$94	
Dr.T's Midi Rec Studio\$44	
Dr.T's KCS\$156	
Or.T's KCS Level II\$219	
Music X\$186	
M for Amiga\$152	
Perfect Sound\$64	
Pro MIDI Studio\$126	
Sonix\$50	
Sound Trax 1 or 2\$15	
Synthia\$63	
Texture\$94	
AMIGA ACCESSORIES	
Beach Towel\$16	
Golf Cap - grey or white\$8	
Golf Shirt - L or XL\$20	
Golf Umbrella - 48"\$22	
Sports Bag\$19	
sports bag\$19	
ALIVE IN THE STATE OF THE STATE	
SONY BLANK DISK SPECIAL	
SONY DS DD (box of 10)\$13.85	
SONY HD (box of 10)\$ 29.95	
BULK DS DD (no labels)99 cents each	
SOFTWARE SUPER SPECIALS	
Starter Software Kit:	
V Text, Money Mentor, Text Craft Plus,	
rkanoid, Graphics Studio\$79	
loliday Gift Pack:	
Master Type, PHA\$AR 3.0, Who-What-	
Vhere-When, F- 40, Hole in One Golf, a	
ystick, \$310 value\$89	
<i>c c</i>	



Defective returns must have a return authorization number. Shipping and handling are non-refundable. Returns subject to restocking fee. We cannot guarantee compatability. All sales are final. Prices subject to change without notice. All stocked items not listed. Ask for our complete product listing.

Amiga is a registered trademark of Commodore Business Machines, INC.

Watch for The



SPECIAL Desktop Video and Animation Issue!!

Details in the December 1989 Issue

AMIGA Programmers Wanted!

The AmigaWorld Tool Chest has created a fantastic opportunity to publish new, uncirculated Amiga programs. If you've written something special for the Amiga, and would like to earn some extra money, please contact us for our Tool Chest Author Guidelines. Perhaps you'll be the next Tool Chest Star!

AmigaWorld Tool Chest Submissions Dept. AmigaWorld Magazine 80 Elm St. Peterborough, NH 03458 jections I have so far are the long load times and the blackon-black steering wheel on one of the three available cars.

Grand Prix successfully adapts the technology of Accolade's earlier attempts, Test Drive and Test Drive II: The Duel, to the closed circuit. The dashboards' graphics aren't quite as detailed, but the setup screens have the same glossy look. The screen changes have the same windshield wiper swish. Then, there are the tunnels. Coming out of a tunnel in the middle of the pack is better experienced than described. I only wish there were an echo.

One of the friendlier racing programs around, Grand Prix has no mysterious requester boxes but plenty of options. I especially like the map that indicates your progress and how ing from practice to the full eight-race circuit.

The designers paid great attention to detail. When you blow your engine, you hear a convincing bang and watch billowing black smoke in your rearview mirrors. When you nudge the car in front of you too hard, your hood crumples and he spins out in a full 360. The engine sound is even a little throatier than usual.

The slim manual is thorough, but does not provide much game color. It says the other nine drivers have their own styles, but profiles would be more helpful than the bestto-worst chart.

I finished second in my first race (Brazil), but haven't managed any better than a close sixth on the second (Monaco). At least this time I'm just driving, and not driving myself



Drive your life away.

sharp the approaching turn will be. Pit stops, mercifully, are limited to wheel replacement. You can choose among five difficulty levels from rookie (automatic shifting, sometimes nudgeable cars) to pro (you have to work to make it out of the straightaways) and three types of rac-

crazy. (\$49.95, Accolade, 550 S. Winchester Blvd., Suite 200, San Jose, CA 95128, 408/985-1700. Joystick required.) ■

THIS SEASON'S MV.P.s*

*(Most Valuable Programs)



Ahead of the Pack

A-Talk III, the first communications program for the Amiga Computer™ to bring you an ARexx language interface now adds support of ASDG's new multi-serial port cards for the Amiga 2000™. With A-Talk III and ASDG's multi-serial cards you can now set up a multi-line BBS. A-Talk III is a professional program maintained by professionals.

Standard A-Talk III features include:

- · Advanced Script Language with over 50 commands, interactive commands, and automatic generation of logon Scripts.
- ARexx Language Interface.
- . Over 9 protocols including: XMODEM, YMODEM-g, Kermit and WXMODEM and ZMODEM resume.
- · Global setting screen for setting up parameters for host systems.
- Support for over 10 modems including Hayes™, HST and Telebit.
- · Busy signal detection.
- . System Clipboard support with Cut, Copy and Paste.
- . International Fonts and Keyboard Support
- Terminal emulations including: VT100, VT52, H19, ANSI, and Tektronix 4010/4010, IBM PC ANSI Color Graphics.
- . Overscan in NTSC and PAL

Requires 512K, 1 Meg of Memory Recommended

List Price: \$99 US

Critics' Praise: "More file transfer, display and communications

options than you can shake a stick at." "One of the most powerful communications — Amiga World

packages on the market
"I would wholehearledly recommend your using packages on the market" — Amiga Sentry — Amiga Sentry

"If you need a communications package that does it — Amazing Computing A-Talk (III)" all"

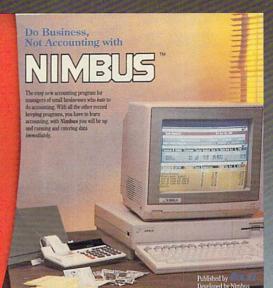
"A-Talk, the outstanding commercial program from — Your Amiga (UK)

"A-Talk III sets new standards" — Amiga Markt & Tect

"A sportscar disquised as a Volkwagen"

Dator Mag

"A-Talk III is the program of choice"—Amiga G



NIMBUS™

Tackle Business, Not Accounting

Nimbus simplifies the accounting process so you can get on with your business. Accounts are kept on a cash basis, automatically transforming your check book register into an Income Statement and Balance Sheet. Setting up Nimbus is as easy as entering your company name, address and an opening account balance. Forget debits and credits, Nimbus disperses amounts to proper accounts as you write checks and create invoices. Customers and vendors are kept track of by name not an assigned number. The built-in Chart of Accounts can be used as is, or edited to suit your particular requirements

Standard Nimbus features include:

- · Fully integrated General Ledger, Sales/Accounts Receivable, Purchases/Accounts Payable
- · Standard reports including aging report available at any time
- · Logically progressive Mini-menus guide you through the data entry
- . Daily, weekly, or monthly sales and expense reports
- Separate Customer Statements
- · Capsule statement available at bottom of each invoice if desired
- . Utilizes Hard Disk and separate Data Disk for unlimited invoicing
- · Plain paper or pre-printed Invoices and Statements

Requires 512K, 1 Meg of Memory Recommended

List Price: \$159 US

Both Now Available from your Amiga Software Dealer

Dealers call: American Software, Comp Rehend, Micro-Pace, Soft-Kat. Southern Technologies or Triangle Electronics.



P.O. Box 90309, Long Beach, CA 90809 (213) 427-1227

A-Talk-III, Amiga, Tektronix, Hayes, IBM and Nimbus are the respective trademarks of Felsina Software; Commodore-Amiga, Tektronix, Inc; Hayes Microcomputer Products, Inc.; IBM and Nimbus. Copyright © 1989 Oxxi, Inc

Circle 75 on Reader Service card.

MASTER 3A-S1191.

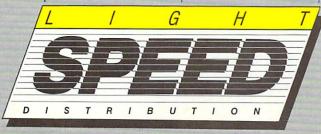
FREE SHIPPING ON SOFTWARE ORDERS OVER \$100! Via UPS 2nd Day Air. US Only (Alaska & Hawaii excluded). COD add \$3.00 PRODUCTIVITY Analyze 2.0 \$65 Afterburner \$32 Impossible Mission II \$14 AD&D Heroes Aquaventure \$27 It Came From The Desert \$32 Annals of Rome \$27 Advaventure \$27 Jack Nicklaus Golf \$32 Artura \$27 Artura \$27 Artura \$27 Annals of Rome \$28 An
TELECOMMUNICATIONS
THE LIGHTSPEED ADVANTAGE: DataStorm \$27 Operation Wolf \$23 Deluxe PhotoLab \$95 Death Bringer \$27 Paladin \$27 Demon's Winter \$27 Demon's Winter
Elite
Commodore-Amiga. Superbase Personal 2
POLICIES: Shipping Info: Software is \$2.50/item (\$5 max) via UPS Ground For UPS 2nd Day Air add \$1.50 to the Ground rate. COD add \$3.00. Next Day Service available. Other carriers. Hardware, and Foreign rates may be extra
Other Policies: No charge to Credit Card until shipping date, and no surcharges. Exchanges only for defective items, and for same item only. We cannot guarantee product satisfaction. California Challenge . \$14 Total Eclipse . \$27 TV Sports Football . \$32 Universal Military Sim . \$32 Scenarios 1 or 2 . \$14 Universe 3 . \$32
DESKTOP PUBLISHING Vindicators \$27 UTILITIES Award Maker Plus \$32 Professional Draw \$27 Amiga Alignment Kit \$32 Marauder II \$17 ComicSetter \$65 Professional Page \$25 War in Middle Earth \$35 B.A.D \$32 Project D \$32 Fine Print \$32 Structured Clip Art \$39 Wayne Gretzky Hockey \$32 Cygnus Ed Professional . \$65 Quarterback \$45 PageStream \$129 Pro Fonts 1 & 2 (ea) \$23 World Snooker \$21 Disk Master \$32 Raw Copy \$39 PageStream Fonts (ea) \$27 ProScript \$32 Zork Zero \$39 GOMF! \$27 WShell \$32
ORDERS & CUSTOMER SERVICE
PHU

1-800-735-4428

AT LIGHT SPEED

The state of the s		
/ *************************************	ADADUAGA A AMARATION	1
MUSIC & MIDI	GRAPHICS & ANIMATION	
	\$115 Butcher 2.0 \$25	THE MONTHE COFCIALCE
Dr.T's KCS \$165 Music-X		THIS MONTH'S SPECIALS!
Dr.T's Level II \$229 Pro Sound Des	igner \$119 Digi-Paint III \$65	Master 3A-1 Drive \$119
Dr.T's Midi Studio \$45 Sound Oasis	\$65 Director \$45	
Dr. T's Editors (ea) \$99 Synthia	\$65 Director Toolkit \$27	Chinon 3.5" Internal DD \$ 99
Dynamic Studio \$129 Texture Quest I		
Dynamic Studio \$129 Texture Quest 1	\$99 Elan Performer \$39 S	Cony Bulk Diskettes! ea. \$1.15
/ M \$129 Texture Quest II	troo j rundirioien tro	ony Bulk Dionotico:
ODOTI IOUT ON	Homebuilder's CAD \$129 j	
SPOTLIGHT ON	MovieSetter \$65 PROGR	RAMMING /
Comme Commention	MovieClips \$23 AC BASIC	C
Supra Corporation		
2400 Baud Modem		Modula-2 \$129 Lattice C 5.0 \$199
2400 Baud Modem with cable		
2400zi A2000 Internal Modem \$125		\$65 Magellan \$129
2MB/8MB A2000 RAM card \$425		ibrary \$65 Manx Aztec C Devel \$199
	Sculpt 3D-XL \$129 C.A.P.E. 68K Ass	
512K A500 RAM expansion \$109	Sculpt-Animate 4D \$439 DSM (Disassemb.	oler) \$45 Manx Library Source \$199
2MB A500 RAM w/SCSI port \$469	Turbo Silver 3D \$129 DevPac Amiga (His	Cottl OCE / Many Course Debusses 070 /
21010 A300 TIAINI W/3001 poit	Turbo Silver Terrain \$27 Extend 1.2	\$27 Powerwindows \$50 If you don't see it liste
	the Region 6240 C.E.A. PACIC	\$89 True BASIC \$65 Just ask!
	THE DESIGN \$249 G.F.A. DASIC	\$65 THUE BASIL \$65 UGS GSA:
	leo Effects 3D \$129 HiSoft BASIC	
	no Page \$99 Innovatools	
HARDW	ARE & ACCESSORIES	UNDENS & COSTONIEN SENTICE
DAM EXPLANATOR / COOK	WEL & MODEDODINED	1-800-735-4428 ()
HAMI EXPANSION SUSTI	ARE & ACCESSORIES HARD DRIVES GENLOCKS 142MB 3.5" \$579 Gen One	1-000-100-4420
8-Up! DIP \$175 Quantum	1 42MB 3.5" \$579 Gen One \$6	Hours: Monday-Friday 9-6 (PST)
8-Up! SIMM \$175 Quantum	80MB 3.5" \$899 Magni 4004 or 4004S . \$149	95
8-Up! PopSIMMs (4) \$69 Quantum :	05MB 3.5" . \$999 MiniGen \$219	INTERNATIONAL TOLL-FREE ORDERING!
/ MegaBoard OK 2000 \$199 / Seagate 48/	1B 3.5" \$399 ProGen \$379	
	8 5.25" \$499 SuperGen \$649	AUUIIIALIA.
Starboard II w/512K \$359 Seagate 80Mi	8 5.25" . \$559 VidTech ScanLock \$949	Overseas Freephone Toll-Free: 0014-800-12-5632
Spirit Inboard 1000 \$229 Syquest 44MB		CANADA:
	2400 /	
	es \$129 A-MAX Mac Emulator . \$129 7	Toll-Free Service Call: 1-800-869-2555
GRAPHICS HARDWARE A2000 CONTRO		Australia & Canada, Diago, usa Tali Free lines
AProDraw 12x12 Tablet . \$465 GVP Impact 2MB/0		Australia & Canada: Please use Toll-Free lines
12x12 w/Cursor \$499 HardFrame	\$249 Boing! Optical Mouse \$99 for G	Orders Only! (Minimum Order \$100 US)
Color Splitter \$89 Kronos		nfo, or Orders under \$100 US, call 503-777-1008.
Digi-View 3.0 \$139 Overdrive	. \$165 CMI Proc Accel 1000 \$199 Thank	
Digi-View GOLD \$139 Supra WordSync	\$169 CMI Proc Accel 500/2000 \$185	Tou:
FrameGrabber \$565 Trump Card	\$175 CSA Midget Racer \$349	
Panasonic Camera w/Lens . \$249 SUPRA DRIVES	W/12MHz 68881 \$499 ACCESSO	ORIES BOOKS
MUSIC HARDWARE SCSI Controller 500 \$	W/12/W/12 00001 3499 MCGEGGG	INIES BUUNS
AMAG MINISTER COM COOK OF THE TOOK	169 Konin Zemnz USU/882 . \$1795 Copy Stand	
AMMO MIUI/Sallipier \$119 SUSI CONTROller 1000 \$2	09 UNIDTIVE \$139 EPYX 500XJ J	Joystick \$15 AmigaDOS Manual \$17
CMI Midi External \$59 Supra 20MB A500 \$56		7
Midi Gold 500 \$59 Supra 30MB A500 \$639		ck \$12 C for Advanced \$26
Midi Gold 2000 \$65 Supra 45MB A500 \$729	Phoenix Cage w/Power . \$225 Mouse Master	
Perfect Sound 500 \$69 Supra 60MB A500 \$849	Power Player Joys	
Perfect Sound 1000 \$79 Supra 80MB A500 \$1219	Call for hardware Trackball Mouse	\$42 Quick Reference Guide . \$8
/	, i i i i i i i i i i i i i i i i i i i	S \$89 Sybex Handbook 1 or 2 . \$19
/ (Bb / 6	A Opens of diasses	Goo J Dyben Hallubun T UI Z . G13
	Charles and the control of the contr	
	I G H	T

Notice: We aid Law Enforcement agencies in the prosecution of Credit Card fraud!



MasterCard.



6335 SE 82nd, Portland, OR 97266, (503) 777-1008, FAX: (503) 777-1252

A Division of Doxsis Systems, Inc.

R E V I E W S Continued from p. 18

put status (MIDI or Amiga internal samples), and an offset control that delays the start time of the sequence by a number of measures.

THIS OR THAT

Music-X's approach to sequencing is a bit confusing. A sequence can be thought of as one entire musical part extending from the beginning to the end of a song, or as a fragment to be strung end to end with others to form a complete part. It can be triggered by a control sequence, and it can also be a vertical arrangement containing more than one part (for example, you could record drums, bass, piano, and brass parts on separate MIDI channels into one sequence).

Up to 20 sequences can run simultaneously, and in the Track window at the top right of the screen, you can see which are playing at any given time. This display is just for monitoring purposes, though; the only control you have here is the ability to mute a sequence by clicking on its name.

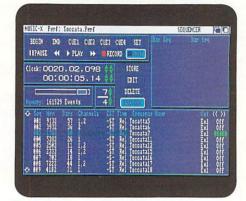
Click Record in the Transport window and the program presents a number of recording options. The choices include Punch-In Manual (which you control with the Return key), Punch-In Auto, Loop mode (which allows you to record multiple passes of a part without restarting the recorder), Mix Down mode (merges a number of sequences into one), and a Count-In setting (which backs the recorder up a specified number of bars before starting to record). While these options can make the recording process convenient, their presentation-in a window that appears every time you select Record, regardless of whether you need to reset your parameters-is inconvenient. A better approach would be to offer them in a pulldown menu.

Once you have made your selections, you can start the recorder either by clicking on "Go" or by playing a note on your controller.

It is unfortunate that the Sequencer page's metronome is in the form of a looped track, as this setup complicates the changing of time signatures. In order to retain an accent on the first beat of each measure, you must program any time-signature changes into the metronome track—otherwise you are stuck with an unaccented metronome.

THREE DOWN

The Sequencer screen offers three pulldown menus. The Options menu is the



From the Sequencer page, you can keep tabs on all your tracks.

place to go for sequence manipulation: a Copy Sequence selection duplicates the current sequence and places it in another location, while Merge Sequence combines two sequences into one. Extract Sequence removes MIDI-channelized data, System-Exclusive data, or Music-X events (commands) from a sequence. For example, you could split a sequence containing a bass part on MIDI channel 1 and piano part on channel 2 and copy it to separate sequences, or you could transfer all controller data to another sequence. Erase All Sequences wipes out all sequence data, but leaves everything else intact. Output Channels lets you globally remap MIDI channels: Any data on MIDI channel 1 could be routed to channel 10, for instance,

Items on the Synchronization menu help you sync Music-X to other timingintensive devices. Music-X can slave to MIDI, MIDI Time Code, SMPTE, the Amiga's internal clock, or the Amiga's internal video clock (the chip that controls the monitor's Vertical Blanking Interval generates a timing frequency that is the same as the NTSC standard frame rate for television). A Time Code Offset enables you to set your start time to zero even though it may be starting 20 minutes into the code (SMPTE or MTC). Music-X can also serve as a timing source, generating MIDI sync, MIDI Start and Stop, and Song Position

Pointer. Finally, a Delay option attempts to compensate for older MIDI gear that may not be correctly implemented with Song Position Pointer.

THE EDITORIAL DEPARTMENT

You can tweak your sequences in either the graphic (Bar Editor), or text (Event Editor) page.

A good portion of the Bar Editor page is taken up by a Graphic Score window, which displays notes and other MIDI data as bars on a grid, piano-roll style. Running down the left side of the window is a five-octave keyboard that acts as a note reference. An octave slider to the right scrolls the display up and down to show notes that fall in outer octaves, while a scroll bar beneath the window moves the display back and forth in time. Through a pull-down menu, you can determine what types of data (notes, controllers, Music-X events, and so on) are shown on the grid.

The Bar Editor accepts input by either real-time recording (there are Record, Play, Pause, and Stop buttons at the lower left of the screen), step-time recording, or manual placement of notes (via mouse) on the grid. By selecting one of the boxes numbered one through 16 you can determine which MIDI channel the notes will play on, and on the grid, each MIDI channel is represented by a different color.

Along the right side of the screen you will find a list of tools for adding, inserting, moving, and erasing data, and more. The Lock tool removes a selected MIDI channel's data from the grid, so that it is heard but not seen. Select and Mark are two options for partitioning off data for editing. Zoom changes the magnification of the grid, while Snap, a sort of auto-quantizer, is useful for entering new data onto the grid. Quiet silences the sound source when entering new data onto the grid. Scroll determines whether the display moves as sequences play (scrolling in the Sequencer page is great, by the way), while Grid sets the display resolution. The Parameter selection opens a window full of sequenceplayback options, including Play in Context, which determines whether the sequence plays solo or with others. While Play in Context is a nice feature, it would be easier to use if you could trigger it via a gadget.

The Bar Editor's Cut, Copy, and Paste functions let you move groups of data to different locations in time. You can select data using either the Select or Mark tools; a small window below the Graphic Score shows you the beginning and ending points you have selected. When you copy or cut, a line appears to paste the data onto the grid. Position the line and click; if you have chosen the Select tool, the new material will be inserted into the score; if you chose Mark, it will be pasted over existing data. Cut and Paste double as transpose functions: By copying data to a higher or lower position on the grid, you are transposing it.

EVENTUALLY

There are no global methods for making changes in tempo, time signature, or loop, but you can accomplish these operations on separate pieces using Music-X events—commands that you place into the sequence like any other data.

One global feature Music-X does offer is Quantize, with its array of options such as minimum and maximum threshold, quantization by percentage, velocity scaling, and the ability to determine whether the operation affects a note's start time, duration, or both. Unfortunately, these options do not include the quantization factor (eighth notes, quarter notes, or other); you must return to the grid setting for that.

The Event (text) editor displays sequence data in alpha-numeric format. It has some of the same features as the Bar Editor, but offers very limited control over the display: You can determine only whether durations or note-offs are shown. Keyboard editing is easy—the cursor arrows move you around the screen while the + and — keys change note values. There are two things I do not like about the Event editor, however. Selecting groups of events can be time consuming because you must click each event individually. Also, unnecessary dig-

its clutter up the display. For instance, the measures column in the durations field is taken out to four digits. . .how many events will last 1000 measures?

MY BACK PAGES

The Samples page lets you arrange samples in a list, and offers tuning, octave-



Would you like something from the Bar Editor?

shift, and envelope-editing features.

events. MIDI notes can trigger other notes, controller changes, program changes, or Music-X commands. This page is very powerful and has great potential for live interactive performances.

The Filters page lets you change note messages into other event types, filter out, thin out, and rechannel selected data types, and to echo data to the internal voices or back out through MIDI. There are 16 filters in all (one for each MIDI channel) and you can save settings for each in a separate performance file.

The Librarian page works with any MIDI device capable of sending and receiving system-exclusive information. To set it up, you must know the SySex protocol that your particular MIDI machine requires for this kind of communication. If you don't know system exclusive and cannot find your protocol on a bulletin board, you will have to depend on a SySex fanatic to write one for you.

FLIPPED OUT

Music-X is both powerful and comprehensive. Because its design is open- ▶

In the Keymap page, you can use a controller keyboard to call up other Music-X is both hensive. Because



Circle 90 on Reader Service card.

ended, it has the potential to be even more powerful. The timing is solid and the many synchronization options are professional. Music-X's manual is clear and well written. The Librarian, Keymaps, and Filters pages are clever and very useful, and the graphic editing is great, but the front end of Music-X, the sequencer, is in many ways needlessly complicated. It works fine, but the extra steps required for routine operations give it a cumbersome feel. And while having to use Music-X events for such things as tempo and meter changes may be fine for some applications, a program of this caliber should have global controls as well. This is not to say that Music-X cannot get the job done-there is more than enough here to work with. I just hope that MicroIllusions will forego esoteric functions on future updates in favor of a more elegant front end.

Music-X

MicroIllusions

17408 Chatsworth St. Granada Hills, CA 91344 818/360-3715 800/522-2041 \$299.95 No special requirements.

ONLINE! PLATINUM EDITION

Limber's the word.

By Sheldon Leemon

THE VARIOUS COMMERCIAL information services and private bulletin boards accessible to Amiga users employ many different transfer protocols for insuring that data is received properly. On the PeopleLink network, for instance, Windowed Xmodem is the preferred method for receiving, while on GEnie, I use Ymodem-batch to transfer several files at once. On CompuServe, I prefer the proprietary B or Quick B protocol, on Bix I usually use Xmodem 1K, and on many bulletin boards, Zmodem is the protocol of choice.

Online! Platinum by Micro-Systems Software is one of the only Amiga termi-

nal programs that supports all of these formats, as well as Xmodem and Xmodem CRC, Kermit, and its own Sadie protocol. (Sadie allows you to transfer files both ways and key in text, or "chat," all at the same time, but it is supported only by other Micro-Systems Software products). Its wide-ranging protocol support is not the only reason I like Online! Platinum, though. Its many other features, including a comprehensive script language, macro-key capability, and ARexx support, make it the first Amiga terminal program I've found that meets all of my basic telecommunications needs.

EASY TO SAY

While several other Amiga terminal programs include script languages that enable you to automatically execute a command sequence whenever a specified number is dialed, most of these are limited to a few commands that log you on (enter your account number and password) to a remote system. Online! Platinum, on the other hand, understands a much more extensive script language, one very similar to that used by the popular MS-DOS terminal program Crosstalk. Online!'s script language includes most of the features of a true programming language, such as a conditional IF statement, a JUMP command, and a WHEN command that lets you specify a response whenever a certain condition occurs. In addition, its powerful MENU command allows you to choose any pulldown menu item from a script. For example, to select the "2400" sub-item of the Baud selection on the COM menu, you would use the statement "MENU COM BAUD 2400". Because virtually all of the program's features are accessible through pull-down menus, they are also accessible from the script language.

Just because the script language is powerful, however, does not mean it is complicated. Online!'s special Learn mode allows you to create log-on scripts automatically. As you respond to prompts from the remote system, the program notes the exchange and writes a script that responds in exactly the same way to that series of prompts.

BEND AND STRETCH

Two other programming features further maximize Online! Platinum's flexibility. First is its extraordinarily powerful macro-key capability, which not only allows you to set up text strings that can be entered at the touch of key, but also lets you program Online!'s scripts and macros to call each other. This means that you can trigger any macro key from a script, and more importantly, that you can execute any script command from a macro key. Set the F10 key to "{script} MENU FILE RECEIVE...'RAM: Temp'," for example, and then, when you are ready to start downloading, all you have to do is press F10.

Perhaps the most important programming feature, however, is Online! Platinum's support of ARexx, an interpreted programming language that makes it easy for ARexx-equipped multitasking programs to communicate with one another. When you start up Online!, it opens a message port (which is, incidentally, named ONLINE-1, not MSS-ON-LINE-1 as documented) that can receive requests from other programs. Other applications can use this port to send any script command to Online!, giving them complete control of the program. Likewise, Online! can send a message to any other ARexx-supported program using the ARexx script command. This kind of flexibility is what ARexx was designed for. Using Online! and Superbase Professional (Precision) together, for instance, you could update your stock portfolio easily: Have an ARexx program call up your information service via Online!, manipulate the text that comes in from the modem, and store the relevant information directly into a database.

About the only feature I can think of that is missing from Online! is one to enable ARexx programs to get the address of Online!'s capture buffer. With such a feature, ARexx could manipulate the data in the buffer directly. As currently implemented, the calling program uses an ARexx "get" command to receive text from the modem one character or one line at a time.

TO BE. . . WHAT NOT TO SEE

Among the program's host of other important features is its ability to emulate a number of popular terminals, such as the Tektronix 4010, and the DEC VT 52, VT-100, and VT-102. Online! Platinum

lets you choose from many different screen configurations (overscan or non-overscan, interlaced or non-interlaced, two to eight colors, with or without window borders and title bars, and more) and text fonts (IBM5, IBM8, Topaz8, Topaz9, or Topaz11). It offers a chat window for online conferences, and lets you toggle the printer on and off.

Each 40-number phone directory allows you to select a sequence of numbers to call, so that if one is busy, the next on the list is dialed automatically (or the same number is redialed until a connection is made). The program automatically retains an 8K review buffer so you can take another look at text that was scrolled by too quickly.

Online! Platinum is one of the first terminal programs to support multiple serial devices directly. I was able to use Online! Platinum with both the Supra 2400zi internal modem and ASDG's Dual Serial Board without altering the program in any way (alterations are necessary with most other programs). The only incompatibility I found was a mysterious failure when uploading files to CompuServe using the B protocol with the Supra internal modem.

ONE THING AT A TIME

Online! Platinum does have a few draw-backs. For one thing, the program is huge—the code alone consumes almost 256K. If you have a 512K machine, don't plan on doing any word processing

while you are downloading files. Even with a lot of memory, the program does not multitask well. When it is downloading a file, it slows other tasks to a greater degree than most terminal programs. Online! doesn't even multitask well within itself: When you open the review buffer, your terminal window freezes and becomes inoperative.

The user interface leaves something to be desired as well. For example, the translation tables, which let you replace any character with any other character (good for filtering out non-text characters), consist of 256 hexadecimal numbers. To change a number, you must click on each digit with the mouse; this adds one to the number. In order to filter out the high bit of the top 128 characters, therefore, you need to click eight times on each of 128 digits-1024 clicks in all. If you inadvertently pass the number you want, you must click 15 times to get back to it. Obviously, a "strip high bits" or "filter non-printing" button would be a big help here. Also, each phone entry saves many of the current menu settings, without any visual indication of what the settings are. An expanded phone book edit screen, showing all of relevant settings, would go a long way towards eliminating confusion.

Nontheless, Online! Platinum is the Amiga's most professional and polished terminal program. It includes important extra touches, including an excellent hard-drive installation program, a readable and informative manual, and good telephone support. And finally, I applaud Micro-Systems Software for replacing the Archive menu selection with the more standard Open and Save options. With its exhaustive array of features and programming capabilities, Online! Platinum should meet the needs of even the most demanding user.

Online! Platinum Edition Micro-Systems Software 12798 W. Forest Hills Blvd. Suite 202 W. Palm Beach, FL 33414 407/790-0770 \$99.95 No special requirements.

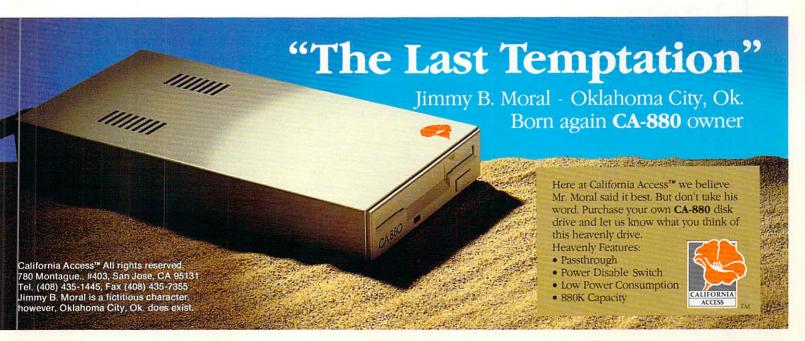
M2DEBUG

Make Benchmark bugs boogie.

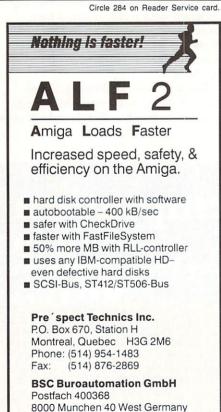
By David T. McClellan

SAT DOWN TONIGHT, plugged in 600 lines of Modula-2 code, ran it, and the program went south—without even a beep goodbye. Now I get to plug in 45 WriteString(), WriteInt(), and Write-Card() calls and try to figure out what it's doing.

But wait! Here's M2Debug, Avant-Garde's full-featured symbolic debugger companion for their Benchmark: Mod-







Circle 230 on Reader Service card.

ula-2 compiler. A new version of the original compiler, a source-code tab-to-blank tool, and a tutorial are included with the package. As with the other Benchmark tools, this debugger is customizable and does its best to run on 512K floppy-based Amigas.

M2Debug can put several windows on your screen, including ones for source code, variables and values, memory (hex, decimal, and so on), registers, procedure call (stack) traceback, disassembled source, breakpoints, modules, execution (stepping/running), and other information. You can resize each of the windows individually, and scroll through them both horizontally and vertically (for several, you must scroll both ways). Most of the windows allow you to make a selection (a line of text or a variable, for instance) with the mouse, and with many, you can switch to another window for the operation. For example, you can select a line in the symbolic variable window, click the Destination gadget above the memory window's scroll bar, and view the variable in hex. Ditto for the source code and disassembly windows.

STEP OUT AND BREAKDANCE

M2Debug knows how to single step, slow-run, and run your modules at normal speed, and can set several kinds of breakpoints. You can single step at both the Modula-2 and 68000 assembly-language levels, so you can get very close to your code. Single-step flavors include stepping into procedure calls (i.e., single stepping each line of a called procedure) and stepping over them (treating the whole procedure call as one step).

The Run Slowly option is a unique and useful cross between single stepping and littering the code with breakpoints to execute at full speed. Here, M2Debug displays each line as it executes, scrolling the source text slowly. You can interrupt the process at any time by hitting the F5 key.

You can set temporary breakpoints (whereby the program runs to the breakpoint, stops executing, and clears the breakpoint), permanent breakpoints (which control will always stop at, such as in a loop or procedure), and the limited repeat variety, wherein the debugger does not stop until it has hit the breakpoint a given number of times. While you cannot set breakpoints that have debugger commands attached as some other debuggers allow, with

M2Debug's multiple tracking windows you don't really need to. When you set a breakpoint on a line that modifies a variable, that variable will generally be in the symbolic data window.

A more complicated function than is immediately apparent, the Symbolic Data window lets you look at variables. Suppose you have a record or array containing components that are themselves records. M2Debug uses an "increasing level of detail" approach to accommodate all your data without scrolling 90% of it off the screen. Click on a record, and the values of atomic fields-numbers or characters-are displayed beside their corresponding field names. The size of every field that is a record is displayed beside the field's name; click on the name and that record-field expands to fill the window. You can move up and down levels of detail this way to see whole data structures.

Global variables are displayed as you enter the program and stop on the first line; you can examine local procedure variables when control enters their procedure. Also, when in a low-level procedure, you can move up the procedure call stack to examine the variables of its caller, and its caller's caller, and so on. Lastly, you can set the values of atomic variables and fields with the F9 key after selecting the variable/field. Strings are set one character at a time.

DOWN AND DIRTY

M2Debug operates either at Modula-2 source level or the assembly-language bits-and-bytes level, and can intermix the two. Besides examining variables in symbolic form, you can display them or other chunks of memory in hexadecimal, octal, binary, or decimal format, or as characters, and do memory fills this way, as well. The debugger also lets you view and set the 68000 registers, plus you can disassemble Modula-2 source lines and single-step through the assembly. This capacity is not something you will need often, but it is useful. M2Debug can also report which machine resources the program has tied up-open and active devices, system libraries, message ports, resources, tasks, overall memory usage, and contents of directories (via a directory lister). Except for the directory window, you cannot modify the displays, but

Phone: (89) 308-4152

(89) 307-1714

they are helpful as is and provide a warm, fuzzy feeling.

YOU CONFIGURE IT OUT?

A built-in configuration section, available from the debugger's main menu, lets you create custom startup patterns: which windows open initially, what language it runs in, and various other maxima. You can save the options in a file called M2Debug.config, which is read at startup time from either the current directory or the S: directory. You can also save other configuration files and load them while running the debugger.

M2Debug is the kind of dog you'll want a big back yard for. I ran it in about 800K of available memory and it did just fine on a medium-size program, but I believe it might get surly in 512K. Avant-Garde Software provides it in both a 84K packed form, which saves disk space, and a 181K unpacked form. Running on a two-floppy system is awkward. with one disk for the compiler, linker, and libraries, and the other for your source. I transferred the debugger to my RAM disk; a hard disk would be better.

A hot key lets you switch from the program to the debugger and back. I had a few problems with it, and sometimes had to switch and click on a few windows to get the debugger in gear. It never hung, though, so I can't grumble much. The manual it contains bits of information not obvious from running the software.

Although I generally think through my designs carefully, sketch out the program and code, and test in chunks, I still end up needing a good debugger more often than I like to admit. M2Debug is a good debugger, and it makes Modula-2 programming easier. I like it.

M2Debug

Avant-Garde Software

2213 Woodburn Plano, TX 75075 214/964-0260 \$149.95

Benchmark: Modula-2 compiler required.

AMI...ALIGNMENT SYSTEM

Get in the groove.

By Tim Walsh

AS A RULE, floppy-disk drives are noted for their Maytag-like durability. After a few years of daily grunt work, however, drive-head misalignment can occur, resulting in the drive's inability to read one or more of the 80 tracks on a disk. Like a firecracker with a defective fuse, misalignment is potentially dangerous: Entire disks can become corrupted every time data is saved to them.

With Free Spirit Software's Ami. . . Alignment System and a screwdriver, you may be able to save yourself an expensive visit to the repair center by realigning drives yourself. (Keep in mind that making the repair yourself may invalidate your drive's warranty.) At the very least, it will help you to rule out misalignment as the source of your difficulties.

A LOOK INSIDE

The boot disk contains a variety of utilities, including one for installing Ami. . . Alignment onto a hard disk. Double-click the HD Install icon and enter a path name including a directory; the program does the rest.

Disk number two, the Calibration disk, contains the Align Data file, which is used for drive-alignment and speed checking. You will need the original disk for testing purposes; duplicates may provide imprecise feedback.

The Align program identifies misalignment and times your drive's motor speed. Start Align from either the Workbench or the CLI and a high-tech control panel, with buttons for choosing drives DF0: through DF3:, appears. With the Calibration disk in the selected drive, you can begin testing.

Alignment checking can be done manually (by clicking the appropriate drive button, selecting Manual mode, and stepping through the tracks individually) or automatically. Either way, the Align control panel reports the status of each track as it is tested. If it signals a prob-▶

HIGHER PERFORMANCE...AND CHEAPER TO BOOT!

FData-10 Single 3.5" External Drive

\$149.95 FData-20 249.95

Dual 3.5" External Drive w/Power Supply

• Fully 1010 Compatible Ultra Compact Design

EXIBLE DATA

Acoustically Quiet

 Amiga® Color Coordinated Ultra Low Power Consumption

10503 FOREST LANE . SUITE 148 . DALLAS, TX 75243

· Daisy Chainable

SYSTEMS, INC.

- Extra Long Drive Cable
- No Annoying "Clicking" Noise
- Diskette "Dust Protection" Door

FREE Shipping Via Federal Express!*

Toll Free Order Line: 1-800-562-3539

Info & Technical Support: 214-669-3999

FAX: 214-669-0021



POLICY: Shipping and handling extra. Personal checks must clear before shipment. For faster service use credit card, cashier's check or bank money order. Credit cards are not charged until we ship. All prices are U.S.A. prices and are subject to change, and all items are subject to availability. These prices reflect a 5% cash discount. For all credit card purchases there will be an additional 5% charge. COD orders add \$5.00. Texas residents add sales tax. All sales are final and returned shipments are subject to a restocking fee. *SHIPPING: FREE shipping by Federal Express Standard Air or UPS (if within 1-day service Amiga* is a registered trademark of Commodore-Amiga, Inc. zone) on orders paid by credit card, cashier's check or bank money order. In Hawaii, Alaska, and outside Continental US, call for information.

VISA



lem, follow the manual's instructions for drive disassembly. The manual gives descriptions of each process. It shows you how to access the stepper motors of Commodore Amiga disk drives (both internal and external) and two third-party drives, the M.A.S.T. and the AIR. As you adjust the ailing unit's stepper motor with a screwdriver, the Align program retests automatically and provides onscreen feedback. Tweak the motor until the program reports satisfactory results.

The Align program's Speed Test gadget summons a real-time digital readout of the rpm (revolutions per minute) on your choice of drives. Because accelerated machines normally cause both external and internal disk drives to spin a bit faster, you must power up in 68000 mode for accurate results.

Like a high-speed phonograph, a properly-timed drive spins floppy disks at a given rate—300 rpm in the Amiga's case—with very little deviation. If the speed test indicates that your drive is turning too slowly, you will need to take the unit to a service center for a cleaning or other service. Slightly faster spinning is nothing to be concerned with.

READ AND WRITE RIGHT

The Drive Performance Function test. which rates track integrity and read and write performance, requires you to place a blank disk in the drive. Here, the program clocks the time needed to write a file to the work disk, then measures the time it takes to read the file. Deviation from a standard 12,000 bytes per seconds for reading and 5000 bytes per second for writing on each track indicates a potential alignment problem. Read and write times on my drive came in at just about 350 bytes per second higher than these standards. Above-standard ratings are not problematic, but a drive that processes fewer bytes per second than the standard is either misaligned or has a more serious problem.

The Ami...Alignment System takes advantage of multitasking, and from the control panel you can toggle between the program and the Workbench screen. A Print option puts your test results in black and white, while a sound option provides eerie sound effects.

The UnStick programs, represented by four icons (UnStickDF0 through UnStickDF3) tackle the task of "unsticking" drives plagued by intermittent stopping of the read/write heads at track 0.

Ami...Alignment helped me align an A1010 drive that regularly corrupted disks during save operations. Now I'm back to routinely saving important files on that drive. That's the best testimony I could give any product.

Ami...Alignment System Free Spirit Software PO Box 128 Kutztown, PA 19530 215/683-5609 \$49.95 No special requirements.

I.C.E.

Calculating on the rocks.

By Louis R. Wallace

A CALCULATOR IS one of the most useful accessories you can add to your desktop. With I.C.E. (Integrated Calculation ►



MW 738-D Power Supply for Amiga 500™

- Deluxe dual-switching
 - External fuse
 - Lighted on/off switch
 - •Three AC outlets
- Surge and Spike protection

THIS IS THE START OF SOMETHING BIG!



Expansion chassis PEC 2520 or 2120

- •Run Amiga 2000™ cards on your A-500 or A-1000
- Two 100-pin expansion slots
- Internal power supply
- •Room for card with drive
- Metal card cages and enclosures

Applied Technologies, Inc. announces the acquisition of the Micro R&D and Phoenix Electronics product lines. We are committed to produce the highest quality and most innovative peripherals available for Commodore™ and Amiga™ computers.

APPLIED TECHNOLOGIES, INC. Micro R&D · Phoenix Electronics

WHERE EXTRA SERVICE IS STANDARD

DEALER INQUIRIES WELCOMED

EAST COAST: (402) 751-2780

WEST COAST: (303) 789-0424

Computer

ONE ON ONE

ONLINE PLATINUM OPERATION WOLF

BEST BUY SUPRA 2400 MODEM \$129.00

HAYES CON 300/1200/24

SOFTWARE

	_
3-DEMON	68.00
3D FANCY FONTS	48.00
AAARGH	
AC BASIC	21.00 135.00
AC BASIC	
AC FORTRAN	198.00
AEGIS DRAW 2000	168.00
AMIKIT	24.00
ANALYTIC ART ANALYZE 2.0	38.00
ANALYZE 2.0	62.00
ANDROMEDA MISSION	25.00
ANIMAGIC	63.00
ANIMATE 3D	95.00
ANIMATOR APPRENTICE	187.00
AQUAVENTURE	
	24.00
ARCHITECTURAL DESIGN	22.00
AREXX	30.00
ARKANOID	25.00
ASSEMPRO	69.00
ATALK III	60.00
ATREDES BBS PRO.	90.00
ATREDES TERMINAL	30.00
B.A.D.	30.00
BARD'S TALE II	37.00
BATTLE CHESS	30.00
BAUD BANDIT	
	30.00
BBS-PC	92.00
BENCHMARK MODULA 2	138.00
BENCHMARK LIBRARIES	69.00
BEYOND DARK CASTLE	21.00
BLITZ, ON THE ARDENNE	37.00
BLOOD MONEY	24.00
BREACH	28.00
BRIDGE 5.0	22.00
BUBBLE BOBBLE	26.00
BUBBLE GHOST	
	25.00
BUTCHER 2.0	23.00
CALIFORNIA GAMES	27.00
CALLIGRAPHER	74.00
CAPE 68K ASSEMBLER	59.00
CAPONE	35.00
CAPTAIN BLOOD	31.00
CARMEN SAN DIEGO	27.00
CARRIER COMMAND	28.00
CENTERFOLD SQUARES	20.00
CHESSMASTER 2000	
CHRONOQUEST	31.00 24.00
CITY DESK 2.0	120.00
CLUE	24.00
COMICSETTER	66.00
COMICSETTER DATA DISKS	22.00
CRITICS CHOICE	150.00
CYGNUS ED PRO	60.00
DARK CASTLES	28.00
DATARETRIEVE	53.00
DEATH BRINGER	24.00
DECIMAL DUNGEON	32.00
DELUXE HELP DISKS	22.00
DELUXE MUSIC 2.0	69.00
DELUXE PAINT III DELUXE PHOTO LAB	99.00
DELUXE PHOTO LAB	98.00
DELUXE PRINT II	57.00
DELUXE PRODUCTIONS DELUXE VIDEO 1.2	138.00
DELUXE VIDEO 1.2	86.00
DEMON'S WINTER	27.00
DESIGN 3D	60.00
DESKTOP BUDGET	
	42.00 27.00
DESTROYER	
DEVPAK ASSEMBLER	60.00
DIGI PAINT 3.0	66.00
DIGIWORKS 3D	78.00
DIRECTOR	44.00
DIRECTOR TOOLKIT	28.00
DISCOVERY DATA DISKS	14.00
DISCOVERY MATH	28.00
DISC. SPELL	28.00
DISC. TRIVIA	28.00
DISC. THIVIA	40.00

//PATIBLE		INTROCAD	51.00
as Ballin		INVESTOR'S ADVANTAGE	
OO BAUD		JACK NICHOLAS GOLF	30.00
		JET OFF HEILITIES	36.00
		JET SET UTILITIES	24.00
DISK MECHANIC	55.00	JEWELS OF DARKNESS	21.00
DOS TO DOS	32.00	JIGSAW	30.00
DOUGS MATH AQUARIUM		JINXTER	28.00
DOWNHILL CHALLENGE	21.00	JOE BLADE	21.00
DR. T'S SOFTWARE	CALL	KAMPFGRUPPE	39.00
DRAGON'S LAIR	39.00		28.00
DRUM STUDIO	30.00		19.00
DUNGEON MASTER	24.00	KARTING GRAND PRIX	19.00
DYNAMIC DRUMS	51.00		32.00
DYNAMIC STUDIO	138.00		63.00
EARL WEAVER BASEBALL	35.00	KING OF CHICAGO	35.00
EMPIRE	35.00	KINGDOMS OF ENGLAND	30.00
EMPIRE STRIKES BACK	24.00	KRISTAL	30.00
ENCHANTER	21.00	LANCELOT	26.00
EUROPEAN SCENERY DISK	18.00	LAS VEGAS	19.00
EXCELLENCE	174.00	LATTICE C 5.0	204.00
EXPRESS PAINT 3.0	78.00	LAZERSCRIPT	29.00
FA INTERCEPTOR	35.00	LEADER BOARD DUAL PAG	K 21.00
FACC II	24.00	LEATHER GODDESSES	26.00

Kronos Card w/Frame

Kronos w/Quantum 40

Kronos w/Quantum 80

FAERY TALE ADVENTURE FAERY TALE HINT BOOK FALCON

FIRST LETTERS & WORDS FIRST SHAPES

FLOW FORMS IN FLIGHT II FORTRESS UNDERGROUND FRACTION ACTION GET/ISBURG GIZMOS 2.0

FAMILY TREE

FEDERATION

FINE PRINT

FLIPSIDE

FLOW

FLIGHT PATH 737

GNOME RANGER GOLD SPELL II

GOLDEN PATH

GRABBIT

GOMF 3.0 GOMF 3.0 W/ BUTTON

GRAND PRIX CIRCUIT

HARRIER COMBAT SIM HARRIER MISSION

HEROES OF THE LANCE

HITCHHIKERS GUIDE HOLE-IN-ONE MIN. GOLF

GRADE MANAGER

GRAPHIC STUDIO GREAT STATES II

GRID START

GAUNTLET II HACKER II

HARDBALL

FLIGHT SIMULATOR II

FERRARI FORMULA I

associated with typical DMA controllers. For A2000 Only Super Low Prices on Quality Kronos

Kronos w/ST-157N 48 Meg \$638.00

Kronos w/ST-296N 80 Meg \$789.00

30.00

35.00

30.00

16.00 35.00 35.00

19.00

38.00

65 00

19.00

32.00 44,00

29.00

32.00

51.00

21.00 52.00

25.00

19.00

28.00

28.00

19.00

HUMAN DESIGN	22.00
HUNT FOR RED OCTOBER	35.00
HYBRIS	24.00
INDOOR SPORTS	35.00
INOVATOOLS #1	55.00
INSANITY FIGHT	28.00
INTELLITYPE	35.00
INTERCHANGE	32.00
INTERFONT	72.00
INTERNATIONAL SOCCER	24.00
INTROCAD	51.00
INVESTOR'S ADVANTAGE	66.00
JACK NICHOLAS GOLF	30.00
JET	36.00
JET SET UTILITIES	24.00
JEWELS OF DARKNESS	21.00
JIGSAW	30.00
JINXTER	28.00
JOE BLADE	21.00
KAMPFGRUPPE	39.00
KARATE KID II	28.00
KARATE KING	19.00
KARTING GRAND PRIX	19.00
KINDERAMA	32.00
KINDWORDS	63.00
KING OF CHICAGO	35.00
KINGDOMS OF ENGLAND	30.00
KRISTAL	30.00
LANCELOT	26.00
LAS VEGAS	19.00
	204.00
LAZERSCRIPT	29.00
LEADER BOARD DUAL PACK	
LEATHER GODDESSES	26.00

\$216.00

\$786.00

51.00 19.00

54.00

18.00

28.00

117.00 30.00

35.00

28.00

35.00

35 00

94.00

92.00

40.00

29.00

41.00

21.00

50.00

\$1085.00

LIGHTS, CAMERA, ACTION LINKWORD LANGUAGES

LRDS OF THE RISING SUN LOTTERY MAGIC

MAGIC JOHNSON BASK. MANIC INVADERS MARBLE MADNESS

MATH TALK FRACTIONS MATH WIZARD

MAVIS BEACON TYPING

MENACE MICROBOT DESIGN DISK

MICROFICHE FILER PLUS

MIMETICS UTILITIES 1

LION'S FONTS

MAGELLAN

MATH TALK

MEAN 18

MOEBIUS

LURKING HORROR

MASTER TYPE MATH MAGICIAN

MAXIPLAN 500 MAXIPLAN PLUS

MICROLAWYER MIDI MAGIC

MINI PUTT MISSION CON-BAT

MONEY MENTOR MONOPOLY

MOVIE CLIPS

MOVIESETTER MULTI-FORTH

MUSIC MOUSE

OBLITERATOR

MUSIC STUDENT

MISSION ELEVATOR

HONEYMOONERS

OPTICKS ORGANIZE OUTRUN PAPER BOY paGE STREAM PAGEFLIPPER + F/X PALADIN PEN PAL PERFECT SCORE PERSECUTORS PHANTASIE III PHASAR 3.0 PHO. PAINT S PIONEER PLA PIXELSCRIPT PIXMATE PLATOON POPULOUS PORT OF CAL POWER WIND PRISON PRO BOARD Fast Autobooting Controller Non-DMA design delivers DMA Speeds without the problems

PRO NET	355.
PRO SOUND DESIGNER	98.
PRO VIDEO PLUS	179.
PRO. DATARETRIEVE	195.
PROFESSIONAL PAGE	240.
PROJECT D	32.
PROWRITE 2.0	78.
QIX	
	21.
QUADRALIENS	18.
QUARTERBACK	48.
QUESTRON II	32.
RAMPAGE	24.
RAW COPY	36.
RISK	24.
ROAD RAIDERS	24.
ROADWAR 2000	28.
ROADWAR EUROPA	31.
ROCKET RANGER	35.
ROGER RABBIT	27.
ROMANTIC ENCOUNTER	28.
RUSH'N ATTACK	28.
SARGON III	35.
SCRIBBLE PLATINUM	
	90.
SCULPT 3DXL	99.
SCULPT/ANIMATE 4D JR	99.
SEX VIXENS	24.
SHANGHAI	28.
SILENT SERVICE	28.
SINBAD & FALCON	35.
SKY CHASE	27.
SLAYGON	28.
SONIX	49.
SOUND QUEST	CA
SOURCE LEVEL DEBUGGER	56.
SPACE STATION OBLIVION	29.
SPEEDBALL	24.0
SPELLER BEE	35.
STARGLIDER II	28.
STELLAR CONFLICT	28.
STELLARYX	24.
STREET CAT	27.
STRIP POKER II	24.
STUDIO MAGIC	63.
SUB BATTLE	
	27.
SUPERBACK	48.
SUPERBASE PERSONAL 2	87.
SUPERBASE PRO	207.
SUPERPLAN	99.
SUPERSTAR ICE HOCKEY	35.
SWORD OF SODAN	30.
SYNTHIA	69

PHASAR 3.0	56.00	
PHOTON CELL ANIMATOR	104.00	
PHOTON PAINT 2.0 PHO. PAINT SURFACE DISK	90.00	
PIONEER PLAGUE	24.00	
PIXELSCRIPT	66.00	
PIXMATE	44.00	
PLATOON	28.00	
POPULOUS	36.00	
PORT OF CALL POWER WINDOWS 2.5	32.00 62.00	
PRINTMASTER +	32.00	
PRISON	24.00	
PRO ASM	66.00	
PRO BOARD	355.00	
PRO NET	355.00	
PRO SOUND DESIGNER PRO VIDEO PLUS	98.00	
PRO. DATARETRIEVE	179.00 195.00	
PROFESSIONAL PAGE	240.00	
PROJECT D	32.00	
PROWRITE 2.0	78.00	
QIX	21.00	
QUADRALIENS	18.00	
QUARTERBACK QUESTRON II	48.00 32.00	
RAMPAGE	24.00	
RAW COPY	36.00	
RISK	24.00	2
ROAD RAIDERS	24.00	
ROADWAR 2000	28.00	1
ROADWAR EUROPA	31.00	1
ROCKET RANGER ROGER RABBIT	35.00 27.00	1
ROMANTIC ENCOUNTER	28.00	1
RUSH'N ATTACK	28.00	1
SARGON III	35.00	1
SCRIBBLE PLATINUM	90.00	1
SCULPT 3DXL	99.00	1
SCULPT/ANIMATE 4D JR	99.00	L
SEX VIXENS SHANGHAI	24.00 28.00	
SILENT SERVICE	28.00	
SINBAD & FALCON	35.00	
SKY CHASE	27.00	
SLAYGON	28.00	ì
SONIX	49.00	
SOUND QUEST SOURCE LEVEL DEBUGGER	CALL 56.00	
SPACE STATION OBLIVION	29.00	
SPEEDBALL	24.00	T
SPELLER BEE	35.00	
STARGLIDER II	28.00	羅.
STELLAR CONFLICT	28.00	麗.
STELLARYX	24.00	-
STREET CAT STRIP POKER II	27.00 24.00	3
STUDIO MAGIC	63.00	j
SUB BATTLE	27.00	i
SUPERBACK	48.00	
SUPERBASE PERSONAL 2	87.00	
SUPERBASE PRO	207.00	0.000
SUPERPLAN OF LINEY	99.00	
SUPERSTAR ICE HOCKEY SWORD OF SODAN	35.00	
SYNTHIA	30.00 69.00	
TARGIS	24.00	-
TAX BREAK	48.00	į
Spirit Techno	log	_

00	512K MEMOR With Clock/ Cale
00	
00	HARDWAR
00	Hard Control of the Section of the Control of the C
00	8 UP 0K
00	8 UP W/2 MEG
00	8 UP W/4 MEG
L	8 UP W/6 MEG
00	8 UP W/8 MEG
00	ADAPTEC 4000
00	ADAPTEC 4070 AIR DRIVE EXT.
00	AIR DRIVE INT.
00	AMIGEN GENLOCK
00	APRODRAW 12 X 12
00	C LTD REPLMNT KYBD
00	C LTD HARD DRIVES
00	CALIFORNIA ACCESS
00.	C LTD KRONOS SCSI
00	C LTD SCSI 500
00	C LTD SCSI 1000
00	C LTD SCSI 2000
00	CM 20 MEG A500/A1000
00	CM 20 MEG A2000
00	CM 40 MEG A500/A1000
00	CM 40 MEG A2000
00	CM 65 MEG A500/A1000
00	CM 65 MEG A2000
av	,

SONIX	49.00	8 UP W/4 MEG	CALL	MC
OUND QUEST	CALL	8 UP W/6 MEG	CALL	MC
OURCE LEVEL DEBUGGER		8 UP W/8 MEG	CALL	MC
PACE STATION OBLIVION	29.00	ADAPTEC 4000	126.00	NE
PEEDBALL	24.00	ADAPTEC 4070	170.00	PE
PELLER BEE	35.00	AIR DRIVE EXT.	149.00	
TARGLIDER II	28.00	AIR DRIVE INT.	139.95	
TELLARYX	28.00	AMIGEN GENLOCK	156.00	di
TREET CAT	27.00	APRODRAW 12 X 12 C LTD REPLMNT KYBD	480.00	
TRIP POKER II	24.00	C LTD HARD DRIVES	98.00 CALL	PE
TUDIO MAGIC	63.00	CALIFORNIA ACCESS	149.00	PR
UBBATTLE	27.00	C LTD KRONOS SCSI	CALL	PR
UPERBACK	48.00	C LTD SCSI 500	156.00	SC
UPERBASE PERSONAL 2	87.00	C LTD SCSI 1000	180.00	SE
UPERBASE PRO	207.00	C LTD SCSI 2000	149.00	SE
UPERPLAN	99.00	CM 20 MEG A500/A1000	639.00	SE
UPERSTAR ICE HOCKEY	35.00	CM 20 MEG A2000	539.00	SE
WORD OF SODAN	30.00	CM 40 MEG A500/A1000	799.00	SE
AIHTAY	69.00	CM 40 MEG A2000	749.00	SE
ARGIS	24.00	CM 65 MEG A500/A1000	879.00	SP
AX BREAK	48.00	CM 65 MEG A2000	799.00	ST
				SI
Contain To all and				ST
Spirit Techno	log	_		ST
A500 & A1000) Me	mory Expaniso	n	ST
Inboard 512K		\$299.00		SU
			100 M	BR
Inboard 1 me	g	\$349.00		TIN VD
Inboard 1.5 m	neg	\$439.00		VI-
Inboard 2 Me	-			WV
IIIDUalu Z Me	y Ao	φ469.00		Y. 9

29.00	CM 85 MEG A500/A1000	850.00
22.00	CS-1 COPY STAND	62.00
28.00	CVIEW 1	35.00
28.00	CVIEW 2	35.00
27.00	DELUXE MIDI INTFCE	63.00
53.00	DIGI-DROID	62.00
190.00	DIGI-VIEW 3.0	139.00
35.00	DIGI-VIEW GOLD	139.00
178.00	ECE MIDI	50.00
26.00	EPYX 500 XJ JOYSTK	14.00
30.00	ERGOSTICK JOYSTK	18.00
26.00	FLICKER FIXER	510.00
27.00	FLICKER MASTER	12.00
22.00	FRAMEGRABBER	529.00
115.00	FUTURE SOUND	136.00
29.00	FUTURE SOUND 500	99.00
41.00	GEN ONE GENLOCK	699.00
35.00	GO 64	24.00
30.00	GO 64 INTERFACE CABLE	15.00
30.00	GVP 68030 BOARD	CALL



TELEGAMES

TEST DRIVE II

TEXTPRO THE ACCOUNTANT THE THREE STOOGES

TIME AND MAGIK TITAN

TRACER

ULTIMA IV UNINVITED

THE WORKS PLATINUM THUNDERBLADE

TURBO SILVER TV SPORTS FOOTBALL

UNIV. MILITARY SIM.

TELEWARS

14.00

60.00

120.00

30.00

28.00

55.00

13 00

CALIFORNIA ACCESS CA-880 **NEW LOW PRICE** \$139.00

IDEO EFFECTS 3D	130.00	
IDEO TITLER	88.00	
ORTEX	24.00	
VAYNE GRETZKY HOCKEY	30.00	
VORDPERFECT	145.00	
VORLD CLASS LEADER BD	28.00	
VORLD TROPHY SOCCER	30.00	
C-CAD DESIGNER	90.00	

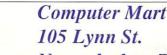
Super Special A501 CLONE \$119 00 ndar

ARDWAR	E
	179.0
2 MEG	489.0
4 MEG	CAL
6 MEG	CAL
8 MEG	CAL
C 4000	126.0
C 4070	170.0
VE EXT.	149.0
VEINT.	139.9
GENLOCK	156.0
RAW 12 X 12	480.0
EPLMNT KYBD	98.0
IARD DRIVES	CAL
RNIA ACCESS	149.0
BONOS SCSI	CAL
CSI 500	156.0
CSI 1000	180.0
CSI 2000	149.0
MEG A500/A1000	639.0
MEG A2000	539.0
AEG A500/A1000	799.0
MEG A2000	749.0
MEG A500/A1000	879.0
MEG A2000	799.0

GVP 68030 W/68882	CALL
GVP 68030 W/4 MEG	CALL
GVP 20 MEG HARDCARD	575.00
GVP 30 MEG HARDCARD	698.00
GVP 45 MEG HARDCARD	816.00
GVP AUTOBOOT EPROM KI	T 29.00
GVP IMPACT A500	CALL
GVP A500 RAM MODULE	66.00
GVP SCSI/RAM A2000 0K 1M	1294.00
GVP SCSI/RAM A2000 0K 2N	1324.00
GVP SCSI/RAM A2000 2M	564.00
HARDFRAME 2000	257.00
HD-6A HARD DRIVE CASE	125.00
INBOARD 0K A1000	216.00
INBOARD 512K A1000	299.00
INBOARD 1 MEG A1000	349.00
INBOARD 1.5 MEG A1000	439.00
INBOARD 0K A500	239.00
INBOARD 1 MEG A500	349.00
INBOARD 2 MEG A500	489.00
MEGABOARD 2000 1 MEG	359.00
MEGABOARD 2000 2 MEG	479.00
MIDI GOLD A500	58.00
MIDI INSIDER A2000	65.00
MIDI STAR	216.00
MODEM CABLE A1000	15.00
MODEM CABLE A500/A2000	15.00
MOUSE MASTER	27.00
MOUSE PADS	9.00
NEC PINWRITER 2200	379.00
PERFECT SOUND	66.00

NEW MW 738 A500 POWER SUPPLY \$81.00

PERFECT VISION PRO GEN GENLOCK	189.00
PRO GEN GENLOCK	384.00
PRORAM 8 MEG W/2 MEG	489.00
SCSI CABLES	25.00
SEAGATE ST157N 48 MEG	439.00
SEAGATE ST225N 20 MEG	345.00
SEAGATE ST251N 40 MEG	440.00
SEAGATE ST277N 65 MEG	510.00
SEAGATE ST138N 30 MEG	394.00
SEAGATE ST296N 85 MEG	570.00
SPIRIT TECH. A500 512K 0K	44.00
STARDRIVE SCSI CONT.	102.00
SI COLOR SPLITTER	90.00
STANDOAND II UN	260.00
STARBOARD II 512K	360.00
STARBOARD II 1 MEG	428.00
STARBOARD II 2 MEG	635.00
SUPER GEN GENLOCK	699.00
SUPRA 2400 MODEM	129.00
BRICK A500 POWER	102.00
TIMESAVER	55.00
VD-1 FRAMEGRABBER	920.00
VI-2000RF	78.00
VI-500RF	78.00
WV-1410 W/LENS,CABLE	238.00
X-SPECS 3D	94.00







guarantees for product performance. Money back guarantees must be handled directly with the

SHIPPING INFO: Software rates are \$2.10/item (Max8.00) UPS Ground or \$4.00/item (Max 14.00) UPS 2nd Day Air. Call for Hardware shipping info. REFUND & RETURN POLICY: Defective merchandise

under warranty will be repaired or replaced. Returned product must be in original packaging. We do not offer refunds for defective products or for products that do not perform satisfactorily. We make no





Circle 69 on Reader Service card.

Nacogdoches, TX 75961 INFORMATION: 409-560-2826

Engine), you can design sophisticated multitasking calculators, add programs to them and produce graphs with them, using the ultimate desktop accessory—your Amiga.

I.C.E.'s two program modules are Constructor, with which you create custom calculations, and Install, which adds a calculator to the Amiga's environment. The package includes four ready-to-use number crunchers: one trigonometric, one scientific, a programmer's calculator, and a general-purpose machine.

What most differentiates I.C.E.'s utilities from other disk-based calculators is Install, which makes your calculators always available: You simply press the Right Amiga and Enter keys to summon them to the foreground. I.C.E. calculators are not programs themselves, but data files; the Install module, which loads into RAM, reads the data to emulate a calculator. Install uses very few CPU cycles, and thus has minimal effect on other memory-resident programs.

All I.C.E. calculators run from both the CLI and Workbench. From Workbench, Install works behind the scenes: from the CLI you must specify the source disk and directory of the Install command and the calculator file. I.C.E. is non-copy-protected and can be copied to both floppy and hard disks; you can easily add calculators to your startup-sequence and activate them on boot up.

BUTTON BY BUTTON

Creating calculators is a quick and easy process. Double clicking the Constructor icon takes you to the Button screen. While this display offers over 50 calculator keys, the range of options is actually larger because some buttons have multiple functions. By pressing ALT on your keyboard, you can cycle through four function-key displays, one of which is completely user definable. Selecting a button is as simple as clicking on it. (You can select a group of keys as well, by drawing a box around them.) Using front to back gadgets, you move from the Button display to the Slate screen, where you assemble your calculator. On the Slate screen, the selected button (or box) appears attached to the pointer; another mouse click pastes it in place.

Once you have created the keypad,

you draw a box to determine the length of the single-line input/output display. A menu option lets you redirect output to a disk file (so you can use it with another program) or to a printer.

A bonus feature of I.C.E. is its ability to display data graphically. With Plot, you can graph the results of a function in I.C.E.'s plotting window; SPlot has the added capability of drawing a "best fit" line through the data. While these functions are somewhat useful from the calculator keypad, they come into their own through I.C.E.'s programming option.

With I.C.E.'s editor, you can write fairly complex programs, load them into a calculator, and execute them by selecting a menu option or by pressing a key. The syntax is simple—somewhat like BASIC or C, but not as extensive. Variables can be 32 characters long, and there are no line numbers to bother with. Branching (using GOTO or GOSUB) is accomplished using descriptive labels, and only one control statement (IF. . THEN) is available. You can use dozens of calculator functions in your programs, but input and output are limited to the PRINT statement. ▶

More than just a Disk Copier!

Project D is the most powerful Amiga disk copier ever created. The **BackupTool** allows you to protect your software investment by making backup copies of your personal, public domain, and commercial software (it even copies copy-protected software!). No other copier allows you to copy to all four disk drives at the same time. No other copier keeps a list of the errors that happened during the last backup. No other copier lets you set the starting and ending tracks of a backup. No other copier has been continuously supported for the past two years.

Project D was designed with the future in mind. We offer registered owners inexpensive, frequent upgrades to our parameter file so you can backup your latest software without having to wait months for new 'Brain Files'.

Project D includes three other useful utilities as an added bonus! The OmniTool can be used to make backups of software that you have for other computers (like MS-DOS or Atari ST). The EditorTool allows you to examine and edit AmigaDOS disks all the way down to the MFM level. The CatalogTool is a powerful automatic disk cataloging utility that lets you maintain detailed lists of your software library.

Compare the features of Project D and you will see that Project D is quite simply the best disk copier package money can buy!

All these great features for only \$49.95 and that includes shipping and handling! Order Today!

To order, send check or money order (US Funds on US Bank) to:

Fuller Computer Systems, Inc. P.O. Box 9222 Mesa, AZ 85214

or call (602) 497-6070 for more information.

See How Project D Stacks Up

Price	\$49.95
Copies Itself	YES
Copies other formats	YES
Disk Edit Utility Included	YES
Catalog Utility Included	YES
Upgradable With Parameter Files	YES
Easy To Understand User Interface	YES
Duplication Speed	80 Sec.
Mark Land Community Commun	

"Project D is by far the most comprehensive disk-utility package available for the Amiga today."

Mitchell Lopes - Editor, Robo City News

"Project D is certaninly one of the most sophisticated, yet easy to use, disk utility packages available for the Amiga."

Emie Tapman - Amiga Sentry

"I consider Project D to be akin to a well equipped luxury automobile; it gives a smooth ride and lots of easy to use operations."

Denny Atkin - AmigaWorld (Feb. 1989, pp. 92-94)

"The user interface is wonderful..." Info Rated: 4+ stars David Martin - Info Magazine (Sept/Oct 88, p. 16)

Project D: The Disk Copier... Plus!

Merry Diskmas from SDof A

Ho! Ho! Ho! Save Dough, Dough, Dough. We have what you're looking for!

Purple Saturn Day.....\$19
Revenge of Defender ...\$21
Space Station Oblivion ...\$19
Street Sports Basketball \$9.44
Sub Battle Simulator ...\$9.88

Technocop\$32
The Games: Winter Ed. \$9.44
Winter Games\$9.88

World Games \$9.89

Amiga Alignment System .\$32 Planet of Lust\$25 Sex Vixens From Space ..\$25

Dungeon Master \$25

Denaris ... \$25 Desktop Budget ... \$44

Kingdoms of England \$32

Beyond Zork

FREE SPIRIT

GOLD DISK

INCOGNITO

Battletech

3 RAWAMENIK)

Pro football simulation so real it sweats. Incredibly lifelike graphics & the best animation ever. 28 teams, 16 games, broadcasters, cheerleaders & more. T.V. SPORTS

FOOTBALL List \$49.95



ABACUS	Colossux Chess X
Assem Pro	Daily Double Horse Race
Abacus Books in stock! . Call	Jigsaw Puzzlemania
ACCESS	Linkword Languages C Strip Poker 2
V.C. Leader Board Golf \$29	S.P. Data Disk 4 or 5\$14
CCOLADE	Tank Attack
Blue Angels Flight Sim Call	World Snooker
Bubble Ghost\$14 Fast Break\$29	BAUDVILLE
th & Inches Football \$14	Video Vegas
th & Inches Team Const.\$6.88	BETHESDA
Grand Prix \$26	Gretzky Hockey
lardball \$25	Gridiron
leatwave Boat Racing Call	BRITANNICA/DESIGNWA
ack Nicklaus Golf\$32	Archipelagos
.N. Golf Champ Courses. \$14 est Drive 2: The Dual \$29	Designasaurus
D. 2: Calif. Scenery \$14 D. 2: Europe Scenery \$14 D. 2: Muscle Cars \$14	BRODERBUND
.D. 2: Europe Scenery \$14	Carmen S.D U.S.A §
.D. 2: Muscle Cars \$14	Carmen S.D World §
.D. 2: Super Cars \$14	Fantavision
CTION WARE	Omni-Play Basketball
Capone\$25	Shufflepuck Cafe
haser Gun	Sim City
Prison	Star Wars
CTIVISION	BYTE BY BYTE/CENTAUR
Sattle Chess\$32	Animate 3-D
Beyond Dark Castle\$23 leuromancer\$29	B.A.D. Disk Optimizer \$
Rampage\$25	Sculpt Animate 4D Jr\$
Shanghai\$14	CINEMAWARE
EGIS	Defender of the Crown \$
amiga Graphics	It Came From The Desert .\$
Starter Kit \$65	King of Chicago\$ Kristal
udio Master 2\$59	Lords of Rising Sun
0raw 2000 \$169	Rocket Ranger
ideoscape 3D\$129	CDI

ELECTRONIC ARTS

Videoscape 3D\$129

Double Dragon \$26

ARTWORX

Scream thru turns and rockets down straightaways on 16 courses around the world against 7 of the hottest drivers of the Grand Prix circuit.

FERRARI FORMULA ONE

List \$49.95



S.D.I. \$16 T.V. Sports Football \$32

Batman\$29

DATA EAST

Bad Dudes .

Platoon

Speedy Delivery Ask your Salesperson

Discount Price \$32

Deep Discounts Astronomical Selections



Send check or money orders to: P.O. Box 111327-Dept. AMW Blawnox, PA 15238

Super Hang-On DATA SOFT Hunt for Red October \$32 Sorceror Lord \$23 Time & Magik \$26 Hole in One Hollywood Poker (X-Rated)\$23 DISCOVERY Arkanoid \$19
Better Dead Then Alien \$23
Grabbit \$19
Sword of Sodan \$32

Zoom!.....\$19 **ELECTRONIC ARTS** Bard's Tale 2 \$39 Battlehawks 1942 \$32 Chessmaster 2100 ... Call Deluxe Music Const. ... \$65 Deluxe Paint 3 \$99 Deluxe Photo Lab \$99 Deluxe Print 2 Call Deluxe Productions . . . \$129 Deluxe Video 3 Call Dragon Force \$32

Sroderbund The best elements of graphic adventures, trivia games, mysteries & arcade animation are combined to make this one of the hottest games on the

WHERE IN THE USA IS CARMEN SANDIEGO? SDA Discount Price \$32 List \$49.95



Zak McKracken \$29 Zany Golf \$14 Axe of Rage

Death Sword \$19 Devon Air. \$32 4×4 Off Road Racing \$9.88 Impossible Mission 2 \$19 Project Neptune \$24

MANDARIN Lombard Rally \$25 MELBOURNE HOUSE Magic Johnson's
Basketball\$32
War in Middle Earth ...\$32 MICHTRON HiSoft Pro Basic\$99 Talespin \$32 Time Bandit \$25 MICROILLUSIONS Blackjack or Craps
Academy ... \$25 Ea.
Faery Tale Adventure .\$32
Fire Power ... \$16
Music X ... \$133 Romantic Encounters . . .

Zork Trilogy \$19

Amiga Light Pen 2.0 \$89

LEISURE GENIUS

Monopoly.....

Zork Zero INKWELL

Brown-Wagh

The most full featured word processor is here with a form generator, database MGR., graphic importation & superior print capabilities.

PEN PALL WORD **PROCESSOR** List \$149.95

Pen Pal

Discount Price \$89 llack Cauldron\$25

Ziot 4 i io.ee	Discount Thee que
MICROPOSE/MEDALIST	Black Cauldron \$25
3-D Pool	Gold Rush\$25 King's Quest 1, 2 or 3 . \$32 Ea.
Gunship\$35	King's Quest 1, 2 or 3 . \$32 Ea.
Honda RVF\$25	Leisure Suit Larry \$25 Manhunter N.Y \$32
Savage	Mannunter N.Y
MICROSYSTEMS	Police Quest\$32
Excellence W.P\$159	Space Quest 1 or 2 \$32
The Works-Platinum \$179	Space Quest 3 \$39
Sribble Platinum\$65	Thexder \$23
MINDSCAPE	SPECTRUM HOLOBYTE
Action Fighter\$25	Falcon\$32
Alien Syndrome\$25	Tetris
Alien Syndrome\$25 Balance of Power 1990 \$32	SSI
Blockbuster \$25	Demon's Winter \$26
Captain Blood \$32	Heroes of the Lance \$26
Combat Course \$25	Hillsfar\$32
De Ja Vu 1 or 2 \$32	Red Lightning\$39
Fiendish Freddy's Big Top.\$32	SPOTLIGHT
Gauntlet 2 \$32	Dark Side \$25
Harrier Combat Sim \$32	Deathbringer\$25
Hostage	Speedball \$25
Indiana Jones\$25	Total Eclipse\$25
Outrun\$33	SUBLOGIC
PaperBoy Call Road Raider \$25	Flight Simulator \$32
Shadowgate	Jet\$32
Shinobi Call	Scenery Disks Call
Space Harrier\$32	TAITO
Space Harrier\$32 Super Star Ice Hockey\$32	Bubble Bobble\$23 Operation Wolf\$23
Thunder Blade\$32	Operation Wolf
Uninvited\$32	Qix
NEWTEK	Renegade \$23
Digi-Paint 3.0 \$65	Sky Shark\$23
Digi-View Gold\$139	THREE-SIXTY
OMNITREND	Dark Castle\$25
Universe 3 \$32	Warlock\$23
ORIGIN	UNICORN
Omega \$32	Aesop's Fables\$29
Quest For Clues:	Math Wizard\$29
Book 1 or 2 \$19 Ea.	Read & Rhyme\$29
Times of Lore\$25	UNISON WORLD
Ultima 4 \$39 PRECISION	Art Gallery 1, 2 or 3 \$19 Ea.
Superbase Personal 2 \$95	Fonts & Borders\$23
Superbase Profess. 3\$189	Print Master Plus \$25
PSYGNOSIS	WORD PERFECT
Baal\$19	Word Perfect W.P Call
Ballistix \$23	ACCESSORIES
Blood Money \$25	Air Drive Internal \$119
READYSOFT	Air Drive External\$149
A-Max (ROMS RQ) Call	Bonus 3½ DSDD\$11.99 Bx.
Dragon's Lair\$39	Sony 31/2 DSDD \$16.90 Bx. Disk Case (Holds 45) \$6.88
SEVERA HINT DISKS	Disk Case (Holds 45) \$6.88 Disk Drive Cleaner \$6.88
Bard's Tale (H. Disk) \$14	Winner M4 Mouse \$29
Dungeonmaster (H. Disk) .\$14	Mouse Pad 8½×11 \$6.88
Heroes of Lance (H. Disk).\$14	Wico Bat Handle \$17
Shadowgate (H. Disk) \$14	Wico Ergostick\$19
SIERRA	Maxx Control Yoke \$69
C	ftware
	ATTUNOPO

ouse Pad 81/x11.... ico Bat Handle . . . Software **Discounters**

USA/CANADA orders

Customer Service (412) 361-5291 Fax Order Line (412) 362-4545

- Free shipping on orders over \$100 in continental USA.
- · No surcharge for VISA/MasterCard.
- · Your card is not charged until we ship.

· Purchase orders accepted.

Order Line Hours: Mon.-Thurs. 9:00 AM-9:00 PM, Fri. 9:00 AM-7:00 PM, Sat. 10:00 AM-4:00 PM Eastern Time

Please Read The Following Ordering Terms & Conditions Carefully Before Placing Your Order: Orders with cashiers check or money order shipped immediately on in-stock items! Personal & Company checks, allow 3 weeks clearance. No C.O.D.'s! Shipping: Continental U.S.A.-Orders under \$100 add \$3; free shipping on orders over \$100. AK, HI, FPO, APO-add \$5 on all orders. Canada & Puerto Rico add \$7.50 on all orders. Sorry, no other international orders accepted! PA residents add 6% sales tax on the total amount of order including shipping charges. CUSTOMER SERVICE HOURS: Mon.-Fri. 9 AM-5:30 PM Eastern Time. REASONS FOR CALLING CUSTOMER SERVICE—412-361-5291 (1) Status of order or back order (2) if any merchandise purchased within 60 days from 50 f A is defective, please call for a return authorization number. We will not process a return without a return auth. #! Defective merchandise will be replaced with the same merchandise only. Other returns subject to a 20% restocking charge! After 60 days from your purchase date, please refer to the warranty included with the product purchased & return directly to the manufacturer. Customer service will not accept collect calls or calls on SD of A's. 800 # order lines! Prices & availability are subject to change! New titles are arriving daily! Please call for more information.

MODEM OWNERS: You can order from our Amiga Shop via CompuServe, GEnie and Q-Link electronic malls

I.C.E. is not the type of program that makes your pulse race, but it accomplishes its purpose in an almost elegant manner. It is very easy to learn and use. While the ready-to-use calculators may be all you ever need, extra functions make I.C.E. adaptable to many tasks. Unfortunately, I.C.E. is overpriced. I would rather buy a standard programmable calculator.

I.C.E.

King Publishing

921 32nd St. Sioux City, IA 51105 712/252-4604 \$89.95 No special requirements.

FINDEX V

As you like it.

By Loren Lovhaug

THE ALLURE OF computerized data management springs from the power it gives you to enter, store, and retrieve data quickly and easily. Findex V attempts to achieve this goal through a free-form approach. Instead of entering data into defined fields of given sizes and types, you key it onto an 80-character by 60-line page in any format you desire. In fact, your data's format can vary from page to page.

To recover data from Findex, you simply specify a word or group of characters. Findex searches the pages for a non-case-sensitive match. Findex can also do criteria searches based on the Boolean logic and comparison operators (AND, NOT, OR, <>, and so on). Because of Findex's free-form nature, these searches are slower and generally less powerful than the sophisticated fieldbased query facilities of other Amiga database programs. While its line-search option speeds the process by scanning only designated lines on each page, Findex is still the slowest commercial Amiga database I have used. The program is also limited by its provision for holding all records in memory and its fixed buffer space (approximately 256K). These factors indicate that Findex is best

suited for casual, limited, or non-traditional applications.

SHAPE IT UP

Findex V's programmable forms-generation facility lets you create customized letters, invoice forms, and so on. To set up a form, you enter text as usual and then insert bracketed commands. Commands can copy data from a record line onto the form, accept user input at specific locations, perform very primitive looping, retrieve pages sequentially either forward or backward, insert the current date, perform limited totalling, and control printer attributes by sending non-printing ASCII codes directly to a printer. While I applaud the programmability, Findex's embedded-command approach is cumbersome and far less useful than more traditional methods.

When you invoke Findex's sort mechanism, the program asks you to declare a single line on your page as the sort criterion. This means that multilevel sorts are unwieldy. For instance, to sort by zip code, last name, and first name, in that order, you would have to make certain that one line within every record con-

Become an Amiga Power User with...

THE AMIGA COMPANION

Second Edition by Rob Peck

he AMIGA COMPANION, Second Edition, is your comprehensive guide to AmigaDOS and the CLI. In clear, concise, easy-to-understand language, the Amiga Companion shows you how to use the full range of powerful AmigaDOS and CLI commands. You'll get maximum performance from your Amiga 500, 100, or 2000. Authored by former Commodore-Amiga innovator Rob Peck, the AMIGA COMPANION provides you with a thorough understanding and mastery of this vanguard computing system.

CONTENTS INCLUDE:

- Introduction to the CLI AmigaDOS Shortcuts Tools on the Workbench
- Modifying Files Using AmigaDOS Commands
- AmigaDOS Command Scripts
- Information Commands Configuring AmigaDOS
 - The Heart of the CLI
 - Console Control Characters
 - AmigaDOS 1.3
- Software in the Public Domain Amiga Answers Plus Five Helpful Appendices and a Complete Index.

NOW, THE SECOND EDITION GIVES YOU EVEN MORE!

You don't need to be a technical expert to put the AMIGA COMPANION to work for you. The moment you open this help-filled book, you'll get more out of your Amiga than ever before! And as your skills develop, you'll find plenty of advanced ideas and information to make the AMIGA COMPANION the most valuable reference book you own!

The Amiga Companion AmigaDO By Rob Peck and the CLI.

New, in the Second Edition

- Full coverage of AmigaDOS 1.3
- · A new chapter on hard disks
- Expanded CLI and SHELL commands
- · Over 50 additional pages of userfriendly examples and tips
- A new MicroEMACS appendix
- · All topics completely revised and updated

YES! Send me_ copies of the AMIGA COMPANION, Second Edition, for just \$19.95 each plus \$2.50 per copy for first class delivery.

THE AMIGA COMPANION

IDG Communications/Peterborough 80 Elm Street Peterborough, NH 03458

1-800-343-0728

Satisfaction Guarantee: If you don't get at least a dozen helpful ideas from the AMIGA COMPANION, simply return it within 10 days for a complete refund!

Name			
Address			
City	State	Zip	
☐ My check or	r money order is enclosed (pa	ayable to AmigaWor	ld)
Charge my:	☐ American Express	☐ MasterCard	□ Visa
	Exp.	date	AW1189

Foreign Orders. Payment in US funds drawn on US bank is required. Orders outside of North America, please add \$12.00 per book for Air Mail shipping and handling. Domestic orders allow 2-4 weeks for delivery.

LET'S FACE IT—MAIL ORDER HOUSES ARE NOT ALL THE SAME!

CONVENIENCE - FAST SERVICE - RELIABILITY - SUPPORT

A AMIGA AMIGA

	
AMIGA AMIGA AMIGA	AMIGA AM
Abacus Sc	oftware
Afniga DOS Toolbox AssemPro BeckerText DataRetreive TextPro	90 00 48 00
ABACUS BO	OKS
Amiga Basic In & Out Amiga DOS In & Out Amiga For Beginners Amiga Machine Language Amiga Tricks & Tigs Amiga Programmers Guide Amiga Drives In & Out Comp Disks all books	16.00 14.00 16.00 16.00 25.00 22.00
ACCE	SS.
World Class F.C. #1 Leaderboard Dual Pak W.C. Leaderboard	21.00
ACCOLA	DE-
Bubble Ghost California Challenge Fast Break Fourth & Inches Fourth & Inches Fourth & Inches Graphics Studio Hardball Mean 18 Mean 18 F.C. vol2 Stance Carp Brek	15.00 27.00 27.00 12.00 36.00 27.00 27.00 15.00

AMIGA AMIGA AMIGA AMIGA AMIGA AMIGA AMIGA AMIGA AMIGA AMIGA

AMIGA

AMIGA AMIGA AMIGA AMIGA

AMIGA AMIGA

AMIGA AMIGA AMIGA

Bubble Ghost	21.00
California Challenge	15.00
Fast Break	27.00
Fourth & Inches	27.00
Fourth & Inches Team	12.00
Graphics Studio	36.00
Hardball	27.00
Mean 18	27.00
Mean 18 F.C. vol2	
Super Cars Disk	15.00
Test Drive	

ACTIONWAR	E
Actionware Phasar Gun	39.00
Capone	24.00
P.O.W	24.00
Dricon	24.00

AEGIS

Animator	60.00
Arazok s Tomb	24.00
Audio Master 2	60.00
Images	24.00
Impact	54.00
Lights. Camera. Action	48.00
Modeler 3D	60.00
Ports of Call	30.00
Sonix	48.00
Video Titler	90.00

ANTIO	
GFA Basic 3.0 Phasar V3 Pioneer Plague Zoetrope	84.00 54.00 24.00 84.00
Articoex	
Bridge 5.0 Centerfold Squares	21.00
Linkword Spanish, French, Italian, R	

ANTIC

German or Greek trip Poker-II			18.00
P. Data #4 & #5		ea.	15.00
BAUDI	Ш	1	2

	DOMITTE TO
Award Maker Sports 18.0	ker Sports 18.00
Dream Zone 30.0	ne 30.00

Brod	erbu	nd So	oftw	are .
Fantavision Sky Chase Space Racer Stars Wars				36.00 27.00 20.00 27.00

CENT	RAL	CO	AS	T
Disk 2 Disk Dos 2 Dos Quarterback				30. 33. 42.

FINEMAW:	\ii\
Defender of The Crown King of Chicago Lords of The Rising Sun Rocket Ranger S D.I. Sinbad Speedball Three Stooges TV Sports Football	30 00 15 00 30 00 30 00 15 00 15 00 24 00 30 00

DIGITEK	
Hole in One Min Golf Hole in One Data #3 Hollywood Poker	15.0
DISCOVERY	

Arkanoid				18.00
Grabbit				
Hybris				
Sword of				30.00
				30.00
				. 18.00

ELECTRONIC ARTS

		-		
Bards Tale-II . Bards Tale-II Hints Chessmaster 2000			1	88 0
Deluxe Music				33
Deluxe Paint III			5	15.
Deluxe PhotoLab			9	15.
Double Dragon				6.
Earl Weaver Baseball				30.
Earl Weaver Commissioner D Empire	SK			5
F A-18 Interceptor				10
Ferrari Formula One				2
Mavis Beacon				2
Zany Golf			. 2	4

EPIX	
	15.00
	18.00
California Games	30.00
Death Sword	18.00
Destroyer	15.00
Final Assault	15.00
Final Assault Impossible Mission-II	15.00
L.A. Crackdown	
Space Station Oblivion	15.00
Street Cat	
Street Sports Basketball	15.00
Sub Battle Simulator	
Techno Cop	
The Games: Winter	
Tower Toppler	30.00

GOLD	DISK	
ComicSetter		
ComicArt:Science F.		21.
ComicArt:Superheroes		21.
ComicArt:Funny Figs.		21.
Desktop Budget		42
Font Set-I		21.
Gold Spell-II		27
LaserScript		
MovieSetter		
Pagesetter		90
D		00.

INCOGNITO	SOFTWARE

1 Countain		24.00
		APPA.
	FOCO	

Zork Zero	36.00
LUCASFILM	
Battlehawks 1942	30.00

MICRODEAL/MIC	HTRON
Douglass 2	60.0

Devpac v2 Fright Night							0
Fright (vight							2
Hisoft Basic P	ro						96
Major Motion							2
Slip Stream .							
Time Bandit .							2

MICROILLUSIONS

Black Jack Academy					24.0
Craps Academy					24.0
Faerytale Adventure					30.0
Faerytale Hints					9.0
FirePower					
Photon Paint v2					90.0
Romantic Encounters					24.0

Action Fighter		. 24.0
Alien Syndrome		24.0
Alien Syndrome		30.0
Captain Blood		30.0
Deja Vu		30.0
Deja Vu Harrier Combat Sim.		30.0
Hostage		27.0
Indoor Sports		30.0
Indy Jones Out Run		24.0
Out Run		. 30.0
Road Raider		. 24.0
Shadowgate		30.0
Space Harrier		30.0

OMNITREND	
Breach Breach Scenario Disk 1 Paladin Paladin Quest Disk 1	24.00 18.00 24.00 18.00
HORIGIN	7

Autoduel					33
Moebius .					33
Ultima-III					5
Ultima-IV					39

- 1	RECISI	UN	
Superbase Superbase	Personal-II		48.00

PROGRESSIVE PERIPHERALS

CLI-Mate Diskmaster v1.3 DR. Term Pro Intro CAD PIX-Mate	24 00 30 00 60 00 48 00 42 00
PSYGNOS	SIS

Ballistyx							21.0
Barbarian							24.0
Slood Money							
Captain Fizz							
Menace							18.0
Obliterator							24.0
errorpods							

READYSOFT

00	Dragons Lair 64 Emulator-II(500) 64 Emulator-II(1000) Scary Mutant Aliens				48.0	
00						

Spectrum HoloByte Inc.

Falcon					30.00
Solitare Royale Tetris					21.00
•	S	-	ì		

STRATEGIC SIMULATIONS	INC
Heroes of The Lance Heroes of the Lance Hints Phantasie-III	26.00 26.00

Subloc	3IC
Flight SimII	30.0

Flight SimII Jet Scenery Disk #7 Scenery Disk #9 Scenery Disk #11 Scenery Disk W. Europe Scenery Disk Japan	30.00 20.00 20.00 20.00 20.00
TAITO	
Bubble Bobble	. 21.00

TITUS

Crazy Cars					24.00
Fire & Forget					24.00
Galactic Conqueror Off-Shore Warrior					27.00

UUJ	UNISON WO	ND.	vC	CARC	TARE
Art Gallery	1, 2, OR 3			ea.	18.0

Art Gallery 1, 2, OR 3 ea. Fonts & Borders	21.00
Printmaster Plus	30.00

ZUMA GROUP

TV Show							60.0
TV Text							60.
Zuma Fonts	1.4						24
Luina i Ulita	1						211

MISCELLANE	OUS
Amikit - Drive Align	. 3

AMIGA

AMIGA

AMIGA

AMIGA AMIGA AMIGA

AREXX Aunt Arctic Adven Bad	30.00
Aunt Arctic Adven	24.00
Bad	30.00
Batman	27.00
Battle Chess	30.00
Battle Chess Better Dead Than Alien	21.00
Butcher	24 00
Butcher	27.00
Casino Fever	24.00
Cygnus Ed Pro	
Dark Castle	
Deja Vu II	
Designasauras	30.00
Dia Paint	30.00
DigiPaint	120.00
Distant Armies	27.00
Disidiff Affiles	24.00
Dungeon Master	12.00
Dungeon Master Hints	. 12.00
Elite Hints	30.00
Elite Hints	7.00
Evil Garden	24.00
FACC-II	21.00
Fine Print GFL Championship F.B.	30.00
GFL Championship F.B.	15.00
Gold of the Realm	24.00
Gold Rush Gridiron	24.00
Gridiron	18.00
Gunship	33.00
Highway Hawks	21.00
Kind Words v2	60.00
Kind Words v2 Manhunter	30.00
Page Stream	120.00
Poker Solitaire	21.00
Prime Time	24.00
Pro write 2.0	. 75.00
Sculpt 4D Jr.	90.00
Shanghai	. 15.00
Silent Service	24.00
Turbo Silver	120.00
Twilight Zone	24.00
Typing Tutor	21.00
Typing Tutor War in Middle Earth	30.00
Warlock	21.00
Warlock Wayne Gretzky Hockey	30.00
Wordperfect	144 00
Wordperfect	78.00
WShell	30.00
ACCECCODI	

ACCESSORIES

AMERICAN COVERS Amiga 500 Dust Cover

Amiga 1000 Dust Cover 15.00 Amiga 2000 2500 Dust C 15.00 1010 Drive Dust Cover 8.00 1020 Drive Dust Cover 8.00	
CREATIVE MICROSYSTEMS Midt1 Interface .61.00 Processor Accelerator 148.00 V-I 500 Interface 47.00 V-I 500RF Interface 54.00	
DATASHARE Modem Cable (1000) 13.00 Modem Cable (500:2000) 14.00 Printer Cable (1000) 13.00 Printer Cable (500:2000) 14.00	
PRACTICAL SOLUTIONS Mouse Master 27.00	
SUPRA 2400 Supra Modem	
T.S.R. HUTCHINSON Flicker Master 15.00	

AMIGA BOOKS

1st Book of the Amiga	14.00	
2nd Book of the Amiga	14.00	
Advanced Amiga Basic		
Amiga Applications	14.00	
Amiga Programmers Guide	16.00	
Beginners Guide Amiga	14.00	
Elementary Amiga Basic	13.00	
Inside Amiga Graphics	15.00	
Kids & the Amiga	13.00	
ML Programming Guide	16.00	
Using Amiga DOS	14.00	
SYBEX BOOKS		
Amiga Handbook vol1	19.00	
Amiga Handbook vol2	19.00	
Amiga Programmer's G.		
Airiiga Frogrammers G.	19.00	

AMIGA AMIGA



PLEASE READ BEFORE ORDERING: We accept money orders, certified checks, VISA, M.C and, Discover. Previous Software Support customers may use C.O.D. and personal checks. Orders shipped to U.S.A. (48 states), F.P.O., A.P.O., or possessions, please add \$3.50 per order for S.&.H. U.S. shipping is by UPS ground in most cases. FAST 2nd DAY Alf a available: add \$1.00 per pound additional (U.S. 48 states only). Alaska or Hawaii (all orders shipped 2nd day air.) please add \$7.50 per order for S.&.H. C.O.D. available to U.S. customers only (50 states): add \$2.75 along with your S.&.H. charges per order. Canadian customers may calculate the S.&.H. charges by including \$4.00 (minimum charge) for the first two pieces of SOFTWARE and \$1.00 for each additional piece per shipment. All monies must be submitted in U.S. funds. Canadians must call or write for hardware shipping charges. Foreign customers must call or write for shipping charges. Defective items are replaced at no charge if sent postpaid. All in stock orders are processed within 24 hours; U.S. SOFTWARE orders over \$100 will be shipped 2nd Day Air at our regular \$3.50 S.&.H. charge (48 states only). Washington residents please add 7.6% additional for Sales Tax. All prices subject to change. All sales are final unless authorized by management.

Mail your order to: Software Support, Int. 2700 NE Andresen Road / Vancouver, WA 98661

Pacific time

Technical support available. Call (206) 695-9648. 9am-5pm — Pacific time. Monday-Friday. Orders Outside USA call (206) 695-1393.



VISA

DEALERS — WE HAVE THE SUPPORT YOU'RE LOOKING FOR!

tained a zip code, last name, and first name—in that order. Setting each record up this way takes a great deal of effort, and offsets the benefits of the free-form structure.

As a sort is performed, all record pages are re-sequenced. The only method for maintaining alternate record sequences is to save the entire file under a different name after every sort, and then manually update all as needed.

PORT IN A STORM

Findex V was originally developed for Timex/Sinclair microcomputers and then was ported to MS-DOS and Atari ST systems. Finally, the software was ported to the Amiga. The manual, however, was not. It describes how to use Findex on Atari ST and MS-DOS machines, and includes an insert of "special instructions for Amiga versions." Although the program functions almost identically to the MS-DOS version, there is no excuse for not producing an Amiga manual.

Like the manual, the program disregards the Amiga environment. It boots on the Workbench screen and does not provide front, back, or window-sizing

gadgets. Although Findex does not preclude multitasking, without such gadgets, you can access only applications that use custom screens, by flipping through them with the left-Amiga M and left-Amiga N key combinations.

Findex V's heritage also affects its command interface adversely. The program is controlled through a series of four-letter mnemonic commands. You can type these sequences in at the command prompt or, in one of the few conciliations to the Amiga environment, you can click on the commands listed in a terse help window. While this mouse support may be a step toward Intuition, it is clumsy to use. Only nine of the 27 commands are displayed in the help window at a time, and once you have clicked on a command, you must return to the keyboard to select a suboption.

The program's Record/Forms editor also has limited mouse support. While you can place the cursor anywhere on the screen with the mouse, all other operations—including natural candidates for mouse support (such as cut and paste)—require that you use the keyboard.

ROLL THE CREDITS

The Formatted-Data-Entry mode, which allows Findex to emulate a field-oriented database, is useful for applications not suited to the free-form environment. Another welcome touch is the definable keyboard tokens (macros) option. With it, you can assign up to 16 characters to keys A through P, and later recall the characters by pressing ALT and the appropriate letter keys.

I wish Findex V's data-management prowess overshadowed its lack of attention to the Amiga environment, but it doesn't. Though the program functions adequately, it does not outperform its competitors in terms of speed, power, flexibility, or ease of use. And because other packages can mimic its free-form nature, I can find no compelling reason to recommend Findex V.

Findex V
E. Arthur Brown Company
3404 Pawnee Dr.
Alexandria, MN 56308
612/762-8847
\$49.95
No special requirements.

THE AAMIGA CENTER

Formerly The 64 Store

1-800-388-2700 10 AM To 6 PM Mon. Thru Sat.

CALL

HARDWARE

Commodore

	4TH & INCHES	28.95	
ı	4TH & INCHES A-MAX A-TALK III AC BASIC ACAD TRANSLATOR	141.00	
ı	A-TALK III	130.00	
ı	ACAD TRANSLATOR	141.00	
ı	AUHUM	46.00	
ı	AEGIS IMAGES AEGIS VIDEO TITLER AIR DRIVE - 3.5" INTERNAL ALIEN SYNDROME	26.00	
ı	AEGIS VIDEO TITLER	97.50	
ı	AIR DRIVE - 3.5" INTERNAL	84.00	
ı			
ı	AMIGA 3D GRAPHICS	13.00	
ı	ALIGA 3D GRAPHICS AMIGA 3D GRAPHICS DISK AMIGA BASIC IO - BOSK AMIGA BASIC IO - DISK AMIGA DRIVES IN & OUT AMIGA DRIVES IO (DISK) AMIGA DRIVES IO (DISK)	9.50	
ı	AMIGA BASIC I/O - DISK	9.95	
l	AMIGA DRIVES IN & OUT	21.00	
ı	AMIGA DRIVES I/O (DISK) AMIGA GRAPH, STARTER KIT	10.00 52.00	
	AMIGADOS TOOLKIT	36.00	
	ANIMATE 3D	97.50	
	ANIMATION AREXX USERS MANUAL/DISK	32.50	ı
	B.A.D. DISK OPTIMIZER	32.50	ı
	BAAL	19.50	ı
	B.A.D. DISK OPTIMIZER BAAL BALANCE OF POWER BATTLE CHESS AMIGA	35.75	ı
	BLOOD MONEY	26.00	l
	BROADCAST TITLER	179.00	ı
	C LTD ENHANCED KEYBOARD C-VIEW CHROMA LUMA	121.00	ì
	C-VIEW RGB TO COMPOSITE	29.75	Į
	CALAGARI	156.50	ì
	CALAGARI CALLIGRAPHER - AMIGA CHESSMASTER 2000 CHESSMASTER 2001	29.00	ı
ı	CHESSMASTER 2001	31.00	ı

COLOR SPLITTER
DELUXE PAINT II
DELUXE PAINT II
DELUXE PAINT III
DELUXE PAINT III
DELUXE PAINT III
DESIGN 3D
DIGIPAINT III
DIGINORMAN 3D
DIGIPAINT III
DIGINORMAN 3D
DIGIPAINT III
DIGINORMAN 3D
DIGIPAINT III
DIGINORMAN 3D
DIGIPAINT III
DIGIPA

OVER 1700 ITEMS AVAILABLE

83.75 75.00 92.50 62.50 62.50 62.50 143.00 93.75 24.95 34.25 155.00 93.75 62.50 49.95 312.00 12.50

187.50 31.25 41.25 31.25 540.00 34.50 21.95 21.95 24.95 142.50 121.95 24.95 142.50 121.95 24.95 124.95 31.25 31.25 31.25 MIDI MAGIC

MIDI MAGIC

MIMETICS AMIGEN

MIMETICS SOUND SCAPE

62.50

MIND SHADOW

RIND SHADOW

RISS THE WORKS

MUSIC STUDIO

RIMBUS RECORD KEEPING

ONLINE

A3.75

PAGE READER 3D

PHOTON PAINT II

PHOTON PAINT II

PHOTON PAINT II

PHOTON PAINT II

SCAPE

POPULAS

POPULAS

POPULAS

POPULAS

POPULAS

POPULAS

POPULAS

PROFESSIONAL PAGE

PROFESSIONAL DRAW

PROFESSIONAL DRAW

PROFESSIONAL DRAW

PROFESSIONAL DRAW

RISS PROFESSIONAL PAGE

PROFESSIONAL DRAW

CUAFTERACK

PROGEN GENLOCK

449.00

RICK DANGEROUS

RI

SHADOWGATE

SHANGHAI

SIM CITY

SIM CITY

SINBAD

SPIRIT INBOARD A1000

SPIRIT INBOARD A500

SUPERBASE PERSONAL II

SUPERBASE PERSONAL III

SUPERBASE PERSONAL IIII

SUPERBASE PERSONAL III

SUPERBASE PERSONAL III

SUPERBASE PERSONAL IIII

SUPERBASE PERSONAL III

SUPERBASE PERSONAL IIII

SUPERBASE PERSONAL III

SUPERBASE PERSONAL IIIII

SUPERBASE PERSONAL IIII

SUPERBASE PERSONAL IIII

SUPERBASE PERSONAL IIII

SUPERB

Commodore's First Authorized Amiga Dealer In The USA !!

The AAMIGA Center 5920 Roswell Road Atlanta, GA 30328

TERMS: Software S/H USA \$3.95 per item, Hardware S/H by quote; Minimum order \$30.00; Cashiers check, Money Order, Visa, MasterCard & Discover welcome. No credit card fee; NO COD's, We ship UPS ground, Add \$6.00 for 2nd day air per item. Allow 3 weeks for personal checks; Return authorization number required for defective products. (Call (404) 252-1235); Only like product will be exchanged; 20% restocking fee on non defective return goods: Overseas shipping available; Georgia residents add sales tax.

Tech Support: (404) 252-1235 Customer Service: (404) 252-1233

ESTABLISHED 1968

DINITIGIO MIEIRIYI GIRIA

OUTSIDE USA & CANADA CALL

FOR CUSTOMER SERVICE Call: Mon-Thurs 9:30-4:30/Fri 9-3:30 (718) 692-1148

Retail Outlet, Penn Station, Main Concourse (Beneath Madison Square Garden) NYC, N.Y., 10001 Store Hours Mon-Thurs 8:30-8/Fri 8:30-3/Sat CLOSED Sun 9:30AM-7PM

FOR ORDERS & INFORMATION IN USA & CANADA CALL TOLL FREE

OR WRITE TO:

Montgomery Grant Mail Order Dept P.O. Box 58 Brooklyn, NY, 11230

> FAX NO. 7186923372 TELEX 422132 MGRANT

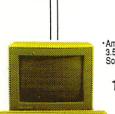
EXTENDED HOLIDAY SEASON ORDER HOURS: Mon-Thurs 8:30am-8pm/Fri 8:30am-4pm/Sat CLOSED/Sun 9:30am-6:00pm NO SURCHARGE FOR CREDIT CARD ORDERS / WE INVITE CORPORATE AND EDUCATIONAL CUSTOMERS RUSH SERVICE AVAILABLE / TOLL-FREE TECHNICAL SUPPORT



Mouse FREE Software · Amiga Basic

\$549

AMIGA 500 w/1084 & .\$999 1010 DISK DRIVE



COMMODORE **MIG** 500

Amiga 500 w/512K RAM • Built-in 3.5" Disk Drive • Mouse • FREE Software . Amiga Basic

COMPLETE WITH: 1084 RGB COLOR MONITOR



E4 .

2000 -Keyboard • 1MB Expandable to 9MB • Built-in 3.5" Disk Drive · Mouse · FREE Software · Amiga

COMMODORE

MIGA

COMPLETE WITH: 1084 RGB COLOR MONITOR

RGB COLOR PACKAGE

- Amiga 500 w/512K RAM Built-in 3.5" Disk Drive
- **RGB Color Monitor**
- Mouse
- FREE Software



3MB RAM · Built-in 3.5" Disk Drive · 40MB Hard Drive . Keyboard . Mouse Amiga Basic · System Software



RGB COLOR PACKAGE

- A-2000 Computer w/Keyboard
 3.5" Disk Drive
- · RGB Color Monitor

40MB HARD DRIVE

\$1949

· FREE Mouse & Software

AMIGA 2000 HD

1MB Ram Built-in 3.5" Disk Drive · 40MB Hard Drive · Keyboard · Mouse · System Software · Amiga Basic

Seagate XCTCC

3.5" & 5.25" HARD DRIVES FOR AMIGA 2000

THESE SEAGATE HARD DRIVE PACKAGES INCLUDE XETEC FC20 HARD DRIVE CONTROLLER CARDS

ST-125N(20MB)	\$419	ST-225N(20MB)	\$439
ST-138N(30MB)		ST-251N(40MB)	
ST-157N(40MB)		ST-277N(60MB)	
ST-177N(60MB)	\$699	ST-296N(80MB)	\$629

GREAT VALLEY PRODUCTS

IMPACT A-2000-Z/0	\$269
A-2000 HARD CARDS	
IMPACT A-2000 HC/30	\$629
IMPACT A-2000 HC/40Q	
IMPACT A-2000 HC-43/M	
IMPACT A-2000 HC/80O	\$1049
A-500 HARD DRIVES	
IMPACT A-500 HD/20M.	\$629
IMPACT A-500 HD/43M 40MB For A-500.	
IMPACT A-500 HD/402	

A-1010 DISK DRIVE

BRIDGE BOARD

A-1084 RGB

ERIPHERALS

A-2088-D BRIDGE BOARD\$499 A-2058 RAM EXPANSION.....\$699 A-2300 GENLOCK.....\$269 A-1680 MODEM.... \$99.95 A-2010 3.5" INTERNAL DRIVE. \$149

ALL OTHER AMIGA PERIPHERALS & ACCESSORIES IN STOCK GEN ONE

.....\$499\$339\$599 SUPRA 2400 ZI International Modem.....\$129 PROGEN. ..\$399 SUPERGEN......\$439 AMIGEN.... OKIDATA STAR

A-MAX MAC Emulator for Amiga SOUNDSCAPE Complete Midi Music System \$144 FRAME GRABBER...

HARD DRIVES **FOR AMIGA 500**

XETEC FASTTRAK

FASTTRAK JR. w/20MB......\$579 FASTTRAK Q40 w/42MB.....\$869 XETEC Q80 M150.....IN STOCK!

TRUMP CARD 500

EXTERNAL CHASSIS ENABLES ANY SCSI HARD DRIVE TO OPERATE WITH AMIGA 500

TRUMP CARD 500 & SEAGATE Hard Drives Pkgs. For AMIGA 500

ST-138N w/30MB.....\$519 SAME PKG. AS ABOVE WIXETEC FASTTRAK EXTERNAL CHASSIS CAN BE EXPANDED TO 8MB RAM....ADD \$149

COMMODORE

64C w/GEOS	1110
128 D COMPUTER	
1541 II DISK DRIVE	
1571 DISK DRIVE	
1750 EXPANSION MODULE	CALL

PANASONIC

KXP-4450

LASER.....\$1349.95

PANASUNIC UNIDATA

KXP-1180... \$177.95 OKIMATE 20... \$139.95 NX-1000... \$164.95

KXP-1191... \$229.95 OKIDATA 180-. \$219.95 NX-1000

KXP-10921... \$269.95 OKIDATA 183... \$249.95 RAINBOW... \$209.95

KXP-3131... \$269.95 OKIDATA 320... \$319.95 NX-1000C XR-1500.

KXP-11524... \$309.95 OKIDATA 321... \$439.95 NX-1000C XR-1500.

KXP-1595... \$409.95 OKIDATA 321... \$439.95 RAINBOW... \$209.95 XR-2410.

KXP-1524... \$519.95 OKIDATA 391... \$599.95 NX-2400... \$277.95 XR-2415.

CHEE \$339.95 \$429.95 \$429.95

\$329.95

PRINTERS

A-2090.

HEWLETT PACKARD

LASERJET \$1629 SANYO \$59.95 PR-3000

PRINTER

DAISY WHEEL

HP PAINTJET..... \$959.95 1MB EXPANDER......\$279.95 2MB EXPANDER......\$399.95 4MB EXPANDER \$699.95 HP DESKJET.....\$589.95 HP LASERJET IID\$2799

DESKJET+.....\$679.95

EPSON FX-850......\$329.95 LQ-510......\$329.95 FX-1050.....\$429.95 LQ-850.....\$509.95 LQ-950.....\$569.95

NEC P2200. P5200. \$319.95 LQ-1050.....\$719.95 LQ-2550.....\$899.95 P5300. \$649.95





TOSHIBA 301....

Certifiedcheck, bank check, money orders, approved P.O.'s, Visa, Mastercard, Diner's Club, Am-Ex, Cart Blanche & C.O.D.'s accepted. Please call before submitting P.O.'s. No additional surcharge for credit card orders. Non-certified checks must wait 4-6 weeks for clearance. N.Y. residents add applicable safes tax. Prices and availability subject to change without notice. Not responsible for typographical errors. Return of defective merchandise must have prior return authorization number, or returns will not be accepted. Please add 5% shipping & handling (Canadian orders please add additional 5%). APOFPO orders please add 10% shipping & handling. All APOFPO orders are shipped first class priority air. All orders can be shipped Air Express-call for details. D.C.A. #800233.

\$329

GO AMIGO!

THE WORLD'S LARGEST DISTRIBUTOR OF AMIGAT PRODUCTS

SPECIALS...SPECIALS...SPECIALS...SPECIALS...

Money-Back Guarantee!

Buy Any Product From:

Avante-Garde • Central Coast Software • Elan Design • Gold Disk • HiSoft • Impulse • Innovision • JDK Images • Lattice • Manx • MicroSystems Software • New Horizons • Oxxi • Right Answers Group • Soft Logik • William Hawes

Between now and December 31, 1989 and if you are dissatisfied for any reason, call for a Return Authorization and we will refund your money. No questions asked.

Freight costs not refundable. Products must be returned postage paid within 30 days of receipt in complete original packaging and resalable condition. Call for complete details.

Supra

2400 Baud Modem with cable

Only \$125!

8 Up with 2 MB \$449

The Ultimate Paint Program



SPECIAL SALE PRICE: Only \$65!

ORDER BY
1 PM PST AND
GET IT TOMORROW BY 3 PM.

- · Software Rates: \$6 for first two items, \$3 for each additional
- · Continental U.S. only · No CODs
- · Low Hardware Rates available
- Call for complete details not available to all areas.

HARDWARE...HARDWARE...HARDWARE...HARDWARE

A-SQUARED	1 11 2
Live — A1000 \$259 Live — A500 \$345 Live — A2000 Call	Mouse Pad
AMICORE Transvestor 2500	GOLD DISK New! Pro Scan
ANAKIN	GREAT VALLEY PRODUCTS
Easyl — A1000	68030 Accelerators Call Impact SCSI/RAM Call A2000 Hard Cards Call A500 Products Call Go Amigo is the #1 GVP Dealer!
New1 FutureSound (A500/2000) \$95	HAITEX
ASDG	X-Specs 3D\$97
Multi Port Serial Card Call	HEWLETT-PACKARD
AVATEX 1200e Modem \$85 1200HC Modem \$115 2400 Modem \$199	Newl Deskjet + Call Newl Paintjet Call INKWELL Light Pen \$99
C. LTD.	KETEK
C View 1 (NTSC)\$39	Command Center Sale!
C View 2 (C/L)\$39	MAGNI
Timesaver (A1000)\$55	Magni 4000 Genlock In Stock! Magni 4000-S In Stock!
CA-880 3.5" Drive\$139	M.A.S.T.
COMMUNICATION SPECIALTIES Gen One	Unidrive \$144 Twin Drive \$269 MiniMegs Lowest!
Processor Accelerator	Tiny Tigers Call
A5007 A2000 S174 FF A1000 (New Version) S230 Video Interface/RF A500 Call A2000 Call A2000 Call CSA Net Midget Raper In Stock up to 20MHz1	MICROBOTICS Starboard II (All Sizes)
DIGITAL CREATIONS	MICROWAY
SuperGen Call New Products Coming Soon!	Flicker Fixer
ECE	MIMETICS
MIDI — A500	Amigen Genlock
EXPANSION TECHNOLOGIES 50MB Hard Drive (A1000)\$879 32MB Hard Drive (A500)\$729	MOTOROLA 68881 Co-Processors Call Speeds from 12MHz to 20MHz
Flash Card\$205 Tool Box	NERIKI Neriki Genlock
GO AMIGO! Disk Head Cleaner \$15 30 Disk Case \$10 ImageWriter II Cable Call Printer Cable \$20	OKIDATA Okimate 20 w/Plug n' Print\$199 Black Ribbon\$6 Color Ribbon\$7
Modem Cable \$20	Carrying Bags for A1000/500/1084 Call

C PERIPHERALS	
bsystem 500\$219	
bsystem 500 w/3.5"\$365	
ONIC	
riable Iris Lens	
24 Printer Call	
S 500 Power Supply Call	
ICAL SOLUTIONS use Master	
ESSIVE PERIPHERALS	
me Grabber Call Gen Genlock \$349	
UM SI Drives (The Best) Lowest!	
KIN ar Keyboard Covers\$19	
ERN TECH	١
-T Mouse\$42	١
TECHNOLOGY to 1.5MB for A1000 Call	
to 1.5MB for A500 Call	
RAM on Sale Now!	
MICRONICS 1000 Rainbow\$259 1000 Black\$190	
ZE INDUSTRIES	١
fect Sound\$69	ı
fect Vision\$199 or Splitter	
IDE ster 3A 3.5"\$139	
00 Modem	
rd Drives Call	١
	١
ver for A500	
ver for A1000	
ckball	
СН	J
anlock Call	
AURALS idlight 7\$178	

ELECTRONIC ARTS SOFTWARE

	Aaargh!		First Letters and Word
	Alien Fires	\$29	First Shapes
	Alternate Reality		Gettysburg
New!	Annals of Rome In S		Global Commander
150	Artura	. Call	Heroes of the Lance
	Awesome Arcade Pak	\$36	Hot & Cool Jazz Disk
	Bard's Tale	\$32	Hunt For Red October
	Bard's Tale II	\$43	Instant Music
153"			Instant Music Data
	Black Cauldron		Intellitype
	Chessmaster 2000		Interceptor
E8*	Chessmaster 2100		Kampfgruppe
	Commisioner's Disk		Kid Talk
leen.	Cosmic Relief		Lancelot
	Deluxe Music		Leisure Suit Larry
	Deluxe Paint II		Mad Libs
Newl	Deluxe Paint III		Marble Madness
144	Deluxe PhotoLab		Master Detective
	Deluxe Productions		
	Deluxe Video 1.2		Math Talk
EX-	Dinosaur Discovery Kit		Math Talk Fractions
	Double Dragon In S		Mavis Beacon
Hear.	Earl Weaver Baseball		Phantasie
Marel	Earl Weaver 88 Stats		Police Quest
team.	Empire		Populous
	Formula 1		Pub Camac

	First Letters and Words\$36	1 13	Puzzle Storybook Call
	First Shapes\$34		Questron II\$38
	Gettysburg\$42	100000	Quizam\$25
	Global Commander \$29	1	Reach For The Stars\$33
		Newl	Rebel Charge In Stock!
	Heroes of the Lance\$29	Men!	Reel Fish'n\$32
	Hot & Cool Jazz Disk\$19	Mem:	Return To Atlantis \$19
	Hunt For Red October\$36	0	
	Instant Music\$32		Roadwar 2000\$32
	Instant Music Data\$19		Roadwar Europa\$31
b.	Intellitype		Roadwars\$26
6	Interceptor\$35		Rockford\$26
	Kampfgruppe\$46	15.	Rubicon Alliance Call
	Vid Tally		Scrabble\$29
1	Kid Talk\$34		Seasons & Holidays\$19
M.	Lancelot\$29	0	Skyfox II. \$19 Smooth Talker\$36
	Leisure Suit Larry\$35		Smooth Talker\$36
	Mad Libs\$16	1	Sorcerer Call
à	Marble Madness\$19		Speller Bee\$34
g,	Master Detective Call	1	Thexder \$26
-1	Master Ninja\$21	Marel	Time & Magik In Stock!
	Math Talk \$34		Wizard Wars Call
	Math Talk Fractions\$34	E-St	Wrath of Nicodemus\$29
	Mavis Beacon\$33		
		Heat	Zany Golf In Stock!
	Phantasie\$31		This section includes products
	Police Quest In Stock!		This acction includes proceeds

NOW SHIPPING BY FED-EX!

MONEY-BACK GUARANTEE!*

ABACUS		BETHESDA	Vivigenous
AssemPro	\$40 \$72	S. Gridiron	. In Stock!
AssemPro DataRetrieve DataRetrieve Professional Amiga Machine Lang Amiga Tricks & Tips Many other books with disks av	\$59	Sound Lab Amina	
 DataRetrieve Professional Amiga Machine Lang 	\$149	Sound Lab Amiga BLUE RIBBON BAKERY	\$239
Amiga Tricks & Tips	\$17	New! Who what where when	. In Stock!
		BRITANNICA	
A/C Basic (v1.3)	\$134	Newl Designasaurus	\$29
CCESS SOFTWARE		BROUERBUND	
		New! Downhill Challenge Fantavision Operation Clean Streets New! SimCity Sky Chase Space Racer New! Where In The World car Where In The USA BROWN-WAGH	\$24 \$39
chilon eavy Metal Land Combat Vorld Class Leader Brd Vorld Class Course Disk	\$29	Operation Clean Streets	\$28 HOT!
ESS TECHNOLOGY		Sky Chase	\$28
A Cad	\$146	New! Where In The World	\$30
Cad	\$55	BROWN-WAGH	Call
COLADE		Heat Easy Ledger Express Paint 3.0. MidiMagic Pen Pal Heat Project Master TV*Show TV*Text. Wordney	In Stock!
ubble Ghost	\$29 \$17	Express Paint 3.0	889 898
ht Night	\$34	Pen Pal	\$99
n & inches Nicklaus Golf	\$37	TV*Show	\$130
fean 18	\$27	© TV*Text	Call
st Drive II	\$30	Wordplex Zuma Fonts BUENA VISTA	Call
n & inches Nicklaus Golf ean 18. nball Wizard est Drive II est Drive II Data (Each) ne Train	\$15	New Roger Rabbit	\$31
		BYTE BY BYTE	
ont-Works rade Manager earning Curve lusic Student I	\$67	Newl Sculpt 3D-XL Sculpt-Animate 4D Sculpt-Animate 4D Jr. Tate Fonts	Call
earning Curve	\$55	Sculpt-Animate 4D Jr	Call
ISIC Student I DNWARE	343	New! Tate Fonts	\$48
0000	\$28	Jet Set	\$35
porte sature aser Gun). W son	\$45	CAPCOM	
).W	\$28	New! Bionic Commando	\$28
		Newl Bionic Commando Newl Side Arms Newl Street Fighter CENTRAL COAST SOFTWAI	., In Stock!
ttlehawks 1942	\$34	CENTRAL COAST SOFTWA	RE
attlehawks 1942 attle Tech syond Zork sh seBee Air Rally ourney In	\$35	Disk 2 Disk (New Version	\$37
heRee Air Rally	\$31 \$28	Disk 2 Disk (New Version Dos 2 Dos	In Stock!
urney	Stock!		
		Defender of the Crown	Call
anghai k MacCracken rk Zero (w/Graphics) In	S31	Defender of the Crown The Came From The Desert King of Chicago	Call
irk Zero (w/Graphics) In ISON WESLEY	310CK1	Newl Kristal	In Stock!
miga Manuals (Now w/1.31)	Call	Rocket Ranger	\$33
ilS nimagic	Hott	ser It Came From The Desert Sking of Chicago Ned Kristal Ned Lords of the Rising Sun. Rocket Ranger. Sibl. Siblad TV Sports. Three Stooges COMMAND SIMULATIONS BUSINESS AND SUPPLY AND THE PROPERTY OF THE P	Call
mator/Images	\$67	► TV Sports	\$32
imagic imator/Images azok's Tomb	\$32	COMMAND SIMULATIONS	\$31
ga	\$39	Blitzkrieg/ Ardennes	\$42
spact	\$54	DATA EAST	Call
ghts Camera Action	Call	u 1 Dad Dudge	\$31
irts of Call	\$36	sa Guerrilla War	Call
onix. ound Trax 1 or 2 . deo Titler v1.1 deoscape 3D 2.0.	\$49 Call	Hard Platoon Newl Robo-Cop	\$36
deo Titler v1.1denscape 3D 2.0	\$99 \$122	Mata RESEARCH Key to C (V. 2.02)	
A second		DELTA RESEARCH	
oha Fonts (each) inSoundTration	\$15	Newl J-Forth (New Version) DEMONWARE	Call
IGO BUSINESS	430	Andromeda Mission	\$28
ckwark 1.3 (A1000 only!)	Stacki	New Evil Garden	\$28
0		DESIGN LABS	
t Of Chess ice Off is Vegas icro Base icro Text obbeary y Fighter	\$24	Fine Print	\$36
s Vegas	\$19	DESIGNING MINDS EN Chroma Paint	\$54
cro Base	\$25	DIGITEK	0
bbeary	\$18	Drum Studio	Call
Fighter	\$19	Newl Final Mission	In Stock!
bo	\$24	DIGITEK see Cyber Complex Drum Studio Neaf Final Mission a. Gunshot Neel Hole In One Courses Hollywood Poker see Paranois Complex Neel Power Stucks Neel Pow	\$25
		Hollywood Poker	Call
luman Design	Stock!	ea Paranoia Complex	Call
icrobot Design	\$24	Newl Power Sticks	In Stock!
ASAR 3.0	\$61	Spin World	Call
netrone	\$92	Nampire's Empire	\$26 \$30
irbo Silver Data Disks Avai	lable!		
ICK fasterpiece Fonts	\$149	New! Kind Words 2.0	\$178 Call
WORX		New! Kind Words 2.0	\$139
idge 5.0	\$27	Newl SuperBack DISCOVERY SOFTWARE	
ussus Chess	\$27	Arkanoid	\$23
idge 5.0 miterfold Squares illussus Chess rikword Languages rip Poker II III	Stock!	Better Dead Than Alien	\$23
ip Poker Data (Ea.)	\$15		
		Hybris Marauder II	\$25 \$25
ygnusEd ACC II	\$25	Marauder II Sword of Sodan Virus Infection Protection	In Stock
TE-GARDE		~ 200m	\$20
ichmark Modula-2	\$134	DR. T	Cal
nchmark Modula-2 nchmark C Library nchmark IFF Library nchmark Simplified	\$71	KCS	\$177
TVILLE		KCS	In Stock
and Malan Dive	Stock!	The Copyist Pro We have everything from	\$149
ward Maker Plus		We have everything from	Dr. TI
Award Maker Sports Disk Dream Zone	\$20	FAGLE TREE SOFTWARE	
Award Maker Plus II Award Maker Sports Disk Dream Zone S.T. INC. All Products	331	Butcher 2.0. Distant Armies	\$25

ASE SW	New Conflict Europe \$36
A Black Magic \$27 A Roll Out \$27 ASEWARE	Cosmic Pirate\$37
A Roll Out\$27	Danger Freak \$29 Dominator \$29
Home Builder's Cad\$139 A Home Builder's Choice In Stock!	Fernandez Must Die\$29
AST/WEST	New! Gernini Wing
A Take Stock\$34	New High Steel \$28
Amiga Karate\$24	Human Killing Machine \$28
Amiga Karaté \$24 Casino Fever \$29	Legend
Invision (Requires	Licence to Kill \$29
Invision (Requires Live!/New Version)\$141 ke/Invision Plus	Lombard Rally\$29 Millenium 2 2 \$37
A Elan Performe In Stock!	PacLand
Magellan (New Version)\$129	Power Struggle\$29
Battleship	Realm of the Trolls
California Games In Stock!	Spherical \$29
Devonaire Call	Star Goose\$29
Four By Four\$31	Super Scramble 529 New! Vigilante 529
Mind Roll \$22	World Snooker Billiards\$22
A Revenge of Defender	IMPULSE
A Space Station In Stock!	Turbo Silver \$109 Newl Terrain Disk Call
Sub Battle \$34	INNOVISION
A Techno Cops	Newl Broadcast Titler
Games, Winter Edition \$34. Mind Roll \$22. A Revenge of Defender \$27. A Revenge of Defender \$27. Street Cat \$27. Call	New Broadcast Titler In Stock! Video Effects 3D \$142 INOVATRONICS
Casino Fever \$26 Poker Solitaire \$24 EXPRESSWAY \$24	CAPE 68K
A Express Copy	CAPE 68K \$65 InovaTools (New Version) \$57 Power Windows 2.5 \$63 INTELLIGENT MEMORY
	ER Emmetic Skimmer
A EZ Backup\$36	Garrison
Animotion	TurboPrint\$38
Animotion In Stock! B Paint \$27 FIRST ROW	© Power Windows 2.5
a HoneyMooners Call	
a HoneyMooners Call A Prime Time S27 A Twilight Zone \$29	≈ Calligrapher
FREE SPIRIT	Lion's Calligrafonts Call
Last Inca \$28 A Media Line Fonts In Stock! A Planet of Lust In Stock! Securities Analyst \$56 Sex Vixens From Space \$29 Ultimate Dos Utils \$46	≈ Calligrapher S69 Ashas Fonts Call Lion's Calligrafonts Call Newsletter Fonts S32 Studio Fonts S32
A Planet of Lust In Stock!	
Sex Vixens From Space\$29	Battle Chess \$34
Ultimate Dos Utils\$46	INTRACORP
FTL Dungeon Master	Newl Trump Castle
FULLER COMPUTING Project D (New Version) Call	INTUITIVE TECH Newl Ultra Card\$37
GIMPEL SOFTWARE Lint \$85	New Pro Video Gold
corn pick	Font Libraries for PV+ (ea.)\$79
a Advantage Call Comic Setter S74 Comic Setter Data Disks Call Comic Setter Data Disks Call Design 3D \$66 Desktop Budget \$48 Gold Spell 2 \$34	Newl Easy Titler
Comic Setter	WADA
A Design 3D	New Headlines 1 or 2
Gold Spell 2\$34	KFS SOFTWARE
Movie Setter Data Disks Call	
	NOTIFIED .
N Professional Draw	Far Boot Camp
Page Setter \$29 A Professional Draw In Stock! Professional Page 1.3 Call	E# Boot Camp
№ Page Setter. \$29 •• Professional Draw. In Stock! Professional Page 1.3. Call •• Pro Templates. \$38 •• Structured Clip Art. In Stock!	ER Boot Camp \$31 ER Contra \$31 ER Jackal \$31 ER RUSH'N Attack Call
Page Setter	ear Boot Camp
a Page Setter \$29 Al Professional Draw In Stock! Professional Page 1.3 Call Al Professional Page 1.3 Sall Al Structured Clip Art In Stock! Al Transcript Call GRAMMA SW Al Nag Plus \$54	LATTICE
Desktop Budget	LATTICE
Mastering CLI\$29	© DISK MECHANIC S60 LATTICE © C +
Mastering CLI\$29	© DISK MECHANIC SOU LATTICE C © C ++ Call © C 5 0 \$199 Other Products Call LYNN'S LUNA C WB Extras \$25
Mastering CLI\$29	© LISS MECHANIC LATICE © C++ Call © C 5.0 S199 Other Products Call LYNN'S LUNA C WB Extras \$25 M28
Mastering CLI\$29	**Busk Mechanic Sou LATTICE **LC ++ Call **LC ++ Call **LC ++ Call **LYANS LUNA C WB Extras \$25 M25 Net Modul 2 \$179 well Moduls 2 \$179 well Moduls 2 \$588
Mastering CLI\$29	© DISK MECHANIC SOU LATTICE © C ++ Call © C 5-0 S199 Other Products Call LYAN'S LUNA C WB Extras \$25 M23 Xed Modula 2 \$179 Xed Modula 2 Debugger \$88 MAGNETIC IMAGES
Mastering CLI\$29	© DISK Mechanic Sou LATTICE Cull © C+0 S199 Other Products. Cull LYNKYS LUNA C WB Extras S25 M2S W28 MACNETIC IMAGES Clip Art Disks 1-8 (Each) \$15 MANX
Mastering CLI \$29 MASS ENTERPRISES Animation Editor \$40 Animation Ethers \$55 Animation Ethers \$55 Animation Ethers \$55 Animation Ethers \$50 Animation Multiplane in Stock' Animation Multiplane in Stock' Animation Stondfrack \$59 Animation Stond \$35 Animation Stond \$35 Animation Stond \$35 Animation Stond College Title \$44 Animation College Title \$44 Animation College Title \$44	© DISK Mechanic Sou LATTICE Cull © C+0 S199 Other Products. Cull LYNKYS LUNA C WB Extras S25 M2S W28 MACNETIC IMAGES Clip Art Disks 1-8 (Each) \$15 MANX
Mastering CLI. \$29 MASS ENTERPRISES Animation Editor \$40 Animation Ethers \$35 Animation Ethers \$35 Animation Ethers \$40 Animation Ethers \$40 Animation Multiplane. In Stock' Animation Multiplane. In Stock' Animation Stondfack \$89 Animation Stand \$35 Animation Stond \$35 Animation Stond Title The The The The The The The The The Th	**BLISK MECHANIC SOLU **LATTICE** **LC ++ Call **LC ++ Call **LYBN'S LUMA C WB Extras \$25 **M2S **Wel Modula 2 \$179 **Wel Modula 2 \$179 **Wel Modula 2 \$619 **MANKETIC IMAGES Clip An Disks 1-8 (Esch) \$15 **MANK Library Source \$199 Artec C-Dev \$199 Artec C-Prof \$149
Mastering CLI. \$29 MASS ENTERPRISES Animation Editor \$40 Animation Effects \$35 Animation Effects \$40 Animation Effects \$40 Animation Effects \$40 Animation Multiplane In Stock Animation Multiplane In Stock Animation Multiplane In Stock Animation Stondrack \$50 Animation Stondrack \$40 Animation Video Titler \$44 Animation Video	** DISK Mechanic Sou LATTICE ** C++ Call ** C+- S199
Mastering CLI. \$29 MASH ENTERPRISES Animation Editor \$40 Animation Effects \$35 Animation Effects \$40 Animation Effects \$40 Animation Multiplane. In Stock Animation Multiplane. In Stock Animation Multiplane. In Stock Animation Stondtrack \$89 Animation Stondtrack \$35 Animation Stondtrack \$35 Animation Countrack Stock Animation Video Titler \$44 Animation Video Titler \$44 Animation Apprentice Cali Hatton Androtto Assocpt Fabrics \$19 Chicken Little \$19 Little Red Hen \$19 Little Red Hen \$19 Little Red Hen \$19 Little Red Hen \$19	**BLISK MECHANIC SOU LATTICE ***C ++ Call **C 5-C S199 Other Products Call LYBN'S LUMA C WB Extras \$25 **MEM Modula 2 **MeM Modula 2 S179 **MeM Modula 2 Debugger \$88 MARNETIC IMAGES Clip Art Disks 1-8 (Each) \$15 **MAXX** Library Source \$199 Artec C-Dev \$199 Artec C-Dev \$199 Artec C-Prof \$149 Source Level Debugger \$82 MASTERTRONIC
Mastering CLI. \$29 MASS ENTERPRISES Animation: Editor \$40 Animation: Effects \$35 Animation: Effects \$35 Animation: Effects \$35 Animation: Mobiscope in Stock Animation: Apprentice Call HLTON ANDROID Chicken Little 1519 Chicken Little Ros \$19 Chicken Little Ros \$32 Little Red Hein \$19 Little Red Hein \$25	**BLISK MECHANIC ** **LC ++ Call ** **LC ++ Call ** **LYBNS LUMA C Call LYBNS LUMA C Call LYBNS LUMA C WB Extras \$25 **MASS MAZS KIEM MODULE 2 \$179 **MEM MODULE 2 Debugger \$588 **MARNETIC IMAGES CID AT 1054s 1-8 (Each) \$15 **MAXY LUMARY Source \$199 **Artec C-Dev \$199 **Artec C
Mastering CLI. \$29 MASS ENTERPRISES Animation: Editor \$40 Animation: Effects \$35 Animation: Effects \$35 Animation: Effects \$35 Animation: Mobiscope in Stock Animation: Apprentice Call HLTON ANDROID Chicken Little 1519 Chicken Little Ros \$19 Chicken Little Ros \$32 Little Red Hein \$19 Little Red Hein \$25	**BLISK MECHANIC ** **LC ++ Call ** **LC ++ Call ** **LYBNS LUMA C Call LYBNS LUMA C Call LYBNS LUMA C WB Extras \$25 **MASS MAZS KIEM MODULE 2 \$179 **MEM MODULE 2 Debugger \$588 **MARNETIC IMAGES CID AT 1054s 1-8 (Each) \$15 **MAXY LUMARY Source \$199 **Artec C-Dev \$199 **Artec C
Mastering CLI. \$29 MASS ENTERPRISES Animation Editor \$40 Animation Effects \$35 Animation Effects \$40 Animation Effects \$40 Animation Effects \$40 Animation Effects \$40 Animation Multiplane in Stock! Animation Multiplane in Stock! Animation Soundrack \$40 Animation Soundrack \$40 Animation Stand \$35 Animation Officer \$40 Animation Officer \$40 Animation Officer \$40 Animation Apprentice Cali MELTON ANDROUGH Assops Fables \$19 Chicken Little \$19 Little \$10 Little \$1	**BUSK MECHANIC SOU LATTICE ***LC+0 **LC+0 **LC+0 **LC+0 **CL+0 **CL+0 **CL+0 **CL+0 **LS+0
Mastering CLI. \$29 MASS ENTERPRISES Animation Editor \$40 Animation Effects \$35 Animation Effects \$40 Animation Effects \$40 Animation Effects \$40 Animation Effects \$40 Animation Multiplane in Stock! Animation Multiplane in Stock! Animation Soundrack \$40 Animation Soundrack \$40 Animation Stand \$35 Animation Officer \$40 Animation Officer \$40 Animation Officer \$40 Animation Apprentice Cali MELTON ANDROUGH Assops Fables \$19 Chicken Little \$19 Little \$10 Little \$1	**BUSK MECHANIC SOU LATTICE ***C + + Call **C - + CS - S199 Other Products Call LYAN'S LUNA C WB Extras \$25 **MEM Modula 2 **Wel Modula 2 Debugger \$58 MARNETIC IMAGES Clip Art Dixs 1-8 (Each) \$15 MANX Library Source \$199 Artec C-Dev \$199
Mastering CLI. \$29 MASS ENTERPRISES Animation: Editor \$40 Animation: Effects \$35 Animation: Effects \$35 Animation: Effects \$35 Animation: Mitigate. In Stock Animation: Mitigate. In Stock Animation: Mouscope. In Stock Animation: Mountrack \$35 Animation: Stondartack \$35 Animation: Stondartack \$35 Animation: Output Stock Animation: Video Titler \$34 Animation: Apprentice Call HELTON ANDROUD Assops Fabries \$19 Clinicken Little \$13 Little Red Hen \$19 L	**BUSK MECHANIC SOU LATTICE ***C + + Call **C - + CS - S199 Other Products Call LYAN'S LUNA C WB Extras \$25 **MEM Modula 2 **Wel Modula 2 Debugger \$58 MARNETIC IMAGES Clip Art Dixs 1-8 (Each) \$15 MANX Library Source \$199 Artec C-Dev \$199
Mastering CLI. \$29 MASS ENTERPRISES Animation: Editor \$40 Animation: Effects \$35 Animation: Effects \$35 Animation: Effects \$35 Animation: Mitigate. In Stock Animation: Mitigate. In Stock Animation: Mouscope. In Stock Animation: Mountrack \$35 Animation: Stondartack \$35 Animation: Stondartack \$35 Animation: Output Stock Animation: Video Titler \$34 Animation: Apprentice Call HELTON ANDROUD Assops Fabries \$19 Clinicken Little \$13 Little Red Hen \$19 L	**BUSK Mechanic Sou LATTICE** ***LC+** **LC+**
Mastering CLI. \$29 MASS ENTERPRISES Animation: Editor \$40 Animation: Effects \$35 Animation: Effects \$40 Animation: Effects \$40 Animation: Mitigate an Institution of the Institution of	**BUSK Mechanic Sou LATTICE** ***LC+** **LC+**
Mastering CLL \$29	**BUSK Mechanic Sou LATTICE** ***LC+** **LC+**
Mastering CLL \$29	**BUSK MECHANIC ** **LOTHER** **LOTHER** **LOTHER** **LOTHER** **LOTHER** **LYBINS LUMR C WB EXTRS \$25 **MEST \$25 **MANUELLE (MAREES CID AND LOSS 1-8 (Each) \$15 **MANUELLE (MAREES CID AND LOSS 1-8 (Each) \$19 ATRIC CDEV \$19 ATRIC CDEV \$19 ATRIC CONTROL \$10 **MEN AND LOSS 1-8 **MEN AND L
Mastering CLL \$29	**BUSK MECHANIC ** **LOTHER** **LOTHER** **LOTHER** **LOTHER** **LOTHER** **LYBINS LUMR C WB EXTRS \$25 **MEST \$25 **MANUELLE (MAREES CID AND LOSS 1-8 (Each) \$15 **MANUELLE (MAREES CID AND LOSS 1-8 (Each) \$19 ATRIC CDEV \$19 ATRIC CDEV \$19 ATRIC CONTROL \$10 **MEN AND LOSS 1-8 **MEN AND L
Mastering CLI. \$29 MASH ENTERPRISES Animation: Editor Animation: Effects \$30 Animation: Effects \$40 Animation: Effects \$40 Animation: Effects \$40 Animation: Mitigate an Institution and Insti	**BUSK MECHANIC ** **LO **LO ** **LO **LO ** **LO **LO
Mastering CLI. \$29 MASH ENTERPRISES Animation Editor Animation Effects \$30 Animation Effects \$35 Animation Effects \$35 Animation Multiplane In Stock! Animation Soundrack \$36 Animation Soundrack \$36 Animation Soundrack \$44 Animation Video Titler \$44 Animation Video Titler \$48 Animation Video Titler \$49 Animation Video Titler \$19 Assopt Fabrics \$19 Assopt Fabrics \$19 The HE TON ANDROUGH \$19 Altrie Read Fabrics \$19 Three Little Pigs \$19 Altreed Fabrics \$115 Alberback Aming In Stock! Alberback Aming In Stock! Alcreds Prefable \$20 N Codnito \$20 N Codnito \$20 N Codnito \$25 Altreds Prefable \$25 Altreds Prefable \$26 <td>**BUSK Mechanic Sou LATTICE ** **C + + Call ** **C - + Call ** **C Call ** **C Call ** **ME Extras ** **S25 **MEN Modula 2 ** **MEN MODULA 3 ** **MEN MODULA 4 ** **MEN MODULA 5 ** **MEN MODULA 5</td>	**BUSK Mechanic Sou LATTICE ** **C + + Call ** **C - + Call ** **C Call ** **C Call ** **ME Extras ** **S25 **MEN Modula 2 ** **MEN MODULA 3 ** **MEN MODULA 4 ** **MEN MODULA 5
Mastering CLL S29 MASS ENTERPRISES Animation Editor \$40 Animation Effects \$35 Animation Multiplane In Stock! Animation Appendice Call HILTON ANDROID Chicken Little \$19 Little Red Hen \$19 Little Red Multiplane In Stock! All Mage Technology All House Samiga In Stock! GOMP 3 0 w/Button \$24 Klough S10 Multiplane S20 Multiplane S20 Multiplane S20 Multiplane S20 Multiplane S20 Multiplane S20 All Klough All Code Multiplane S20 Multiplane S20 Multiplane S20 Multiplane S20 Multiplane S20 All Klough All Code Multiplane S20 Multiplane S20 Multiplane S20 All Klough All Klough All Klough All Klough All Klough All Klough All Code Multiplane In Stock! S34 All Klough All	**BUSK MECHANIC ** **LO **LO ** **LO **LO ** **LO **LO
Mastering CLI. \$29 MASH ENTERRISES Animation: Effects \$30 Animation: Effects \$30 Animation: Effects \$30 Animation: Effects \$30 Animation: Milyslane. In Stock! Animation: Myslane. Animation: Myslane. Animation: Myslane. Animation: Myslane. Animation: Myslane. In Stock! Master States S19 Chicken Little \$19 Little Red Hen \$19 Little Red Hen \$19 Three Little Pigs \$19 Three Little Pigs \$19 William Stock! All Stock Amiga. In Stock! GOMP 3 Ow Muston \$54 MAGE TECHNOLOGY All Kidon \$34 Kikolpi \$20 All Kidopi \$30 All	**BUSK Mechanic

ræ Airball	\$28
Karate Kid II	\$24 \$28
MICRODEAL.	\$25
wed AMAS	In Stock!
MICROUGHA Med AMAS Ned Fright Night Ned Fright Night Ned Hir Disk! Insanty Fight International Soccer Ned Jug Leatherecks Major Motion Fringsde Ned Sight Stream Ned Sight Sight Stream Ned Sight	\$28
Ned Hit Disk!	In Stock!
International Soccer	\$28
New! Jug	\$27
Major Motion	\$27
ear Ringside	Call
Slaygon	\$29
% Tanglewood	\$27
Newl Tetra Quest	\$27
Time Bandits	\$21
MICRO ILLUSIONS	
Black Jack Academy	\$29
Black Jack Academy Craps Academy Discovery Data Disks	\$26
Discovery Data Disks	In Stock!
Faery Tale	\$34
Galactic Invasion	Sec. \$19
New! Music X	\$165
Photon Paint	\$69
Photon Paint Expansion	\$23
New Photon Vid. Cel Animator	Call
FIN Planetarium	\$51
Discovery Data Disks. Ebonstar Fapery Tale Galactic Invasion size Land of Legends Well Music X. Photon Paint Expansion New Photon Viol Transporter New Photon Viol Transporter The Country Transporter Romantic Ecounters Tracers Tracers	\$27
New! Turbo	\$19
MICRO MASTER	
MICROPROSE Newl 30 Pool SIP Dr DoomUs Revenge	\$34
MICROPROSE	***
New! 3D PCO!	\$27 Call
New Eliminator New Gunship New Kennedy Approach New RVF Honda Silent Service	\$28
New! Gunship	At Last!
New! Kennedy Approach	\$30
Silent Service	\$24
Head Coach	. In Stock!
MICROSMITHS	
TyEd Plus	\$57
TXEd Plus. MICRO SYSTEMS SOFTWA Analyze! 2.0	RE
Analyze! 2.0	\$74
BBS-PC	\$106
Ned Online! Platinum	. In Stock!
Organize!	\$63
Analyze! 2.0 BBS-PC % Excellence! (Req. 1MB) Ned Online! Platinum Organize! New Scribble! Platinum The Works! Platinum	\$99
MIMETICS	
3 Demon	\$72
New! Pattern Splatter	. In Stock!
SoundScape	\$130
Utilities I	\$40
Utilities I	. In Stock!
MINDSCAPE	
New! Action Fighter	\$28
New! Balance of Power 1990	. In Stock!
sa Blocker	Call
Captain Blood	In Stock
New Action Fighter Balance of Power New Balance of Power 1990 Bala	. In Stock!
Newl Deja Vu II Harrier Combat Newl Hostage Indiana Jones (Doom) Newl Indiana Jones (Crusade) Newl Joker Poker	\$35
Indiana Jones (Doors)	. In Stock!
New Indiana Jones (Crusade)	\$29
New! Joker Poker	\$33
Perfect Score SAT	\$52
Shadowgate	\$33
Newl Indiana Joines (Crissale) Newl Joker Poixer Perfect Score SAT Newl Road Raider Shadowgate Uninvited Newl Willow	\$31
MINDWARE	607
MINDWARE Ned Aunt Arctic Adventure Charon 5 Ear-Holmes Dec Cartes	. In Stock!
Far Holmes	Call
Des Cartes	\$24
Des Cartes PageFlipper F/X Nul PageRender 3D	\$108
ew PageSync	Call
MSI	
Raw Copy (Latest!)	\$37
MV MICRO	
Newl BAD	
NEW HORIZONS SOFTWAR	\$69
1 FILW	\$75
ProWrite 2.0	
ProWrite 2.0 ProFonts (each)	\$26
Flow	\$26 \$33
NEWTEK	015
NEWTEK	015
NEWTEK	015
NEWTEK Digi-Paint Digi-Droid Digi-Vew 3.0 Digi-Vew Gold	015
Digi-Paint Digi-Droid Digi-View Gold Digi-View Gold	\$45 \$74 \$131 \$131
Digi-Paint Digi-Droid Digi-View Gold Digi-View Gold	\$45 \$74 \$131 \$131
NEWTEK Digi-Paint Digi-Proid Digi-Proid Digi-Vew 3.0 Digi-Vew Gold NEW WAVE Sound Oasis Dynamic Drums Dynamic Studio.	\$45 \$74 \$131 \$131
NEWTEK Digl-Paint Digl-Droid Digl-Droid Digl-Vew 3.0. Digl-Vew Gold NEW WAVE Sound Oasis Dynamic Drums Dynamic Studio OCEAN SW	\$45 \$74 \$131 \$131
NEWTEK Digi-Paint Digi-Droid Su Digi-Vew 3.0 Su Digi-Vew 3.0 Su Digi-Vew Gold NEW MAYE Sound Oasis Dynamic Drums Dynamic Studio DCEAN SW New Batman	\$45 \$74 \$131 \$131
NEWTEN Digi-Paint Digi-Droid Digi-Droid Digi-Vew 3.0. Digi-Vew Gold NEW WAVE Sound Oasis Dynamic Drums Dynamic Studio OCEAN SW WW Batman OMNITEEND	\$45 \$74 \$131 \$131 In Stock! \$59 \$144
NEWTEK Digi-Paint Digi-Droid Su Digi-Vew 3.0 Su Digi-Vew 3.0 Su Digi-Vew Gold NEW MAYE Sound Oasis Dynamic Drums Dynamic Studio DCEAN SW New Batman	\$45 \$74 \$131 \$131

201		
	Ausic Mouse	a
UHI	UIN STSTEMS	,
Newl A	Auto Duel In Stock Moebius \$31 Jgre \$22	8
Ö	lore \$2	5
New! O)mega Ca Iltima III S29	ij.
L	Imega Ca Iltima III 52	9
2	Jibma IV	9
OTO		
0	SM Disassembler\$4-	4
UX	Tall III (Name Massine) in Classic	
Hew!	A-Talk III (New Version) In Stock	'n.
1	timbus 1.3 (New Ver) Ca	ŭ
PA	A-Talk III (New Version) In Stock AzxPlan 500 \$49 Ilmbus 1.3 (New Ver) Cal SSPORT DESIGN	
Stant I	Master Tracks Pro\$25:	9
PE	ACOCK SYSTEMS	
C	CB Tree\$79 ELATIONS	9
PIX	ELATIONS	
New! F	PixelScript \$10- LYGLOT SOFTWARE	4
PO	LYGLOT SOFTWARE	
C	Crossword Creator \$3 Dominoes \$1	5
Ī	Oominoes \$11 Four in One \$2 OR PERSON	ŏ
pol	no pepenu	-
. 17	Thinker Ca	'n
Hew.	Thinker	111
No.A.	Orn Sound Regioner In Steel	11
Hear L	Superhase Personal II \$9	á
č	Superbase Professional 3 \$22	ğ
PR	Pro Sound Designer In Stock Superbase Personal II \$9 Superbase Professional 3 \$22 OGRESSIVE PERIPHERALS	-
New! F	Baud Bandit \$3 SLImate \$2 DiskMaster \$4 DR Term Pro \$7	5
(CLimate \$2	5
1	DiskMaster\$4	0
[DR Term Pro\$7 ntroCAD\$6	9.0
	Mathamation Ca MicroLawver \$4	2
		4
PS		
sur l	YGNOSIS Ca Aquaventure Ca Arena \$1 Baal In Stock Ballistix \$2 Barbarian \$2	all
1	Arena	5
1	Baal In Stock	k!
	Ballistix\$2	2
	Barbarian \$2 Blood Money In Stock Captain Fizz In Stock Chrono Quest \$3	1
Many C	Cantain Fizz In Stock	ü
Name (Chrono Quest \$3	4
[Deep Space\$2	1
. 1	Fire Brigade\$3	13
New!	Chrono Quest S3 Deep Space S2 Fire Brigade S3 Menace S2 Obliterator In Stock Star Ray Ca Terrorpods S2	4
	Star Ray Ca	S Z
Mtm.	Terrorpods	8
QU	ESTREK	
	Mission ConBat In Stock	ķΪ
	Carrier Command\$3	33
-	Corruption In Stock	k!
- 4	Silicon Dreams \$2	
	Olifooti Dicumo	25
Hewl	Space Cutter\$2	25
Heal	Space Cutter \$2 StarGlider \$3 StarGlider !! In Stock	25
Heal Name	Space Cutter \$2 StarGlider \$3 StarGlider II In Stock Univ Military Sim In Stock	25 20 33 k!
New!	Space Cutter \$2 StarGlider \$3 StarGlider II In Stock Univ. Military Sim In Stock UMS Data Disks Ca	25 20 33 k! k!
New! New!	INBIRD Zarrier Command. \$3 Zorruption	25 20 33 k! k! all
RE	ADVSDET	
RE	ADVSDET	
RE	ADVSDET	
RE	ADYSOFT AMAX \$12 Bomb Busters \$2 Cosmic Bouncer \$2	29
RE	ADYSOFT AMAX \$12 Bomb Busters \$2 Cosmic Bouncer \$2	29
RE	ADYSOFT AMAX \$12 Bomb Busters \$2 Cosmic Bouncer \$2	29
RE	ADYSOFT AMAX \$12 Bomb Busters \$2 Cosmic Bouncer \$2	29
RE New! New!	ADYSOFT AMAX \$12 Bomb Busters \$2 Cosmic Bouncer \$2 Tragor's Lair \$3 Ganymed \$2 Rock Challenge \$2 Scary Mutants \$2	29 23 21 38 22 27 27
RE New! New!	ADYSOFT AMAX \$12 Bomb Busters \$2 Cosmic Bouncer \$2 Tragon's Lair \$3 Ganymed \$2 Rock Challenge \$2 Scary Mutants \$2	29 23 21 38 22 27 27
RE New! New!	ADYSOFT AMAX \$12 Bomb Busters \$2 Cosmic Bouncer \$2 Tragon's Lair \$3 Ganymed \$2 Rock Challenge \$2 Scary Mutants \$2	29 23 21 38 22 27 27
RE New! New!	ADYSOFT AMAX \$12 Bomb Busters \$2 Cosmic Bouncer \$2 Tragon's Lair \$3 Ganymed \$2 Rock Challenge \$2 Scary Mutants \$2	29 23 21 38 22 27 27
RE New! New!	ADYSOFT AMAX \$12 Bomb Busters \$2 Cosmic Bouncer \$2 Tragon's Lair \$3 Ganymed \$2 Rock Challenge \$2 Scary Mutants \$2	29 23 21 38 22 27 27
New! New! New! RG	ADYSOFT MAMAY \$12 Bomb Busters \$2 Cosmic Bouncer \$2 Dragon's Lair. \$3 Ganymed \$2 Dragon's Lair. \$3 Bown Busters \$4 Busters \$	29 23 21 38 22 27 27 27 all
New! New! New! RG	ADYSOFT MAMAY \$12 Bomb Busters \$2 Cosmic Bouncer \$2 Dragon's Lair. \$3 Ganymed \$2 Dragon's Lair. \$3 Bown Busters \$4 Busters \$	29 23 21 38 22 27 27 27 all
New! New! RG	ADYSOFT MAMAY \$12 Bomb Busters \$2 Cosmic Bouncer \$2 Uragon's Lair. \$3 Ganymed. \$2 Uragon's Lair. \$3 Ganymed. \$5 Bow Dellaring. \$6 Bow Dellaring. \$7 Bow Dellaring. \$7 Bow Dellaring. \$7 Bow Dellaring. \$8 Bow De	29 23 21 38 22 27 27 27 all
Hewl Hewl RG	ADYSOFT MAMAY \$12 Bomb Busters \$2 Cosmic Bouncer \$2 Dragon's Lair. \$3 Ganymed \$5 Dragon's Lair. \$3 Bone Challenge \$2 Scary Mutants \$5 B VIDEO CREATIONS DeluxeHelp. \$2 Scary Mutants \$5 B VIDEO CREATIONS DeluxeHelp. \$2 CAvailable for Deluxe Paint III. DeluxeHelp. \$2 CAvailable for Deluxe Paint III. The Director Scary Mutants \$1 The Director \$4 Director Toolkit. In Stoo. ORPION DIRECTOR \$1 Black Shadow \$5 \$2	29 23 21 38 22 27 27 all 4,
Hewl Hewl RG	ADYSOFT MAMAY \$12 Bomb Busters \$2 Cosmic Bouncer \$2 Dragon's Lair. \$3 Ganymed \$5 Dragon's Lair. \$3 Bone Challenge \$2 Scary Mutants \$5 B VIDEO CREATIONS DeluxeHelp. \$2 Scary Mutants \$5 B VIDEO CREATIONS DeluxeHelp. \$2 CAvailable for Deluxe Paint III. DeluxeHelp. \$2 CAvailable for Deluxe Paint III. The Director Scary Mutants \$1 The Director \$4 Director Toolkit. In Stoo. ORPION DIRECTOR \$1 Black Shadow \$5 \$2	29 23 21 38 22 27 27 all 4,
REWINDERSON NEW SC	ADYSOFF MAMAY \$12 Bomb Busters \$2 Bosmic Bouncer \$3 Forgors Lair. \$3 Born Busters \$2 Born Busters \$3 Forgors Lair. \$3 Born Busters \$3 Born Busters \$4 Busters \$	29 23 21 38 22 27 27 27 27 45 45 24 45
REWINDERSON NEW SC	ADYSOFF MAMAY \$12 Bomb Busters \$2 Bosmic Bouncer \$3 Forgors Lair. \$3 Born Busters \$2 Born Busters \$3 Forgors Lair. \$3 Born Busters \$3 Born Busters \$4 Busters \$	29 23 21 38 22 27 27 27 27 45 45 24 45
REWINDERSON NEW SC	ADYSOFF MAMAY \$12 Bomb Busters \$2 Bosmic Bouncer \$3 Forgors Lair. \$3 Born Busters \$2 Born Busters \$3 Forgors Lair. \$3 Born Busters \$3 Born Busters \$4 Busters \$	29 23 21 38 22 27 27 27 27 45 45 24 45
REWITH HEAVE SC	ADYSOFT MAMAX \$12 Bomb Busters \$2 Cosmic Bouncer \$2 Dragon's Lair. \$3 Dragon's Lair. \$3 Dragon's Lair. \$3 Bon's Busters \$2 Dragon's Lair. \$3 Busters \$4 B	29 23 21 38 22 27 27 27 27 45 45 24 45
REWITH HEAVE SC	ADYSOFT MAMAX \$12 Bomb Busters \$2 Cosmic Bouncer \$2 Dragon's Lair. \$3 Dragon's Lair. \$3 Dragon's Lair. \$3 Bon's Busters \$2 Dragon's Lair. \$3 Busters \$4 B	29 23 23 23 23 23 23 24 24 24 24 24 24 24
Hewl Hewl SC New Hewl	ADYSOFF	29 23 23 23 23 23 23 24 24 24 24 24 24 24
Hewl Hewl Hewl Hewl SC	ADYSOFT	29 23 38 38 38 22 27 27 27 27 27 24 45 24 24 24 24 24 24 24 24 24 24 24 24 24
Hewl Hewl Hewl Hewl SC	ADYSOFT MAMAX \$12 Bomb Busters \$2 Cosmic Bouncer \$5 Crayon's Lair. \$3 Dragon's Lair. \$3 Dragon's Lair. \$3 Dragon's Lair. \$3 Busters \$6 Dragon's Lair. \$3 Busters \$6 Dragon's Challeng. \$2 Dragon's Lair. \$3 Busters \$6 Dragon's Lair. \$3 Busters \$6 Dragon's Lair. \$3 Busters \$6 Busters \$6 Dragon's Lair. \$3	29 23 38 38 38 22 27 27 27 27 27 24 45 24 24 24 24 24 24 24 24 24 24 24 24 24
Hewl Hewl Hewl Hewl SC	ADYSOFT MAMAX \$12 Bomb Busters \$2 Cosmic Bouncer \$5 Crayon's Lair. \$3 Dragon's Lair. \$3 Dragon's Lair. \$3 Dragon's Lair. \$3 Busters \$6 Dragon's Lair. \$3 Busters \$6 Dragon's Challeng. \$2 Dragon's Lair. \$3 Busters \$6 Dragon's Lair. \$3 Busters \$6 Dragon's Lair. \$3 Busters \$6 Busters \$6 Dragon's Lair. \$3	29 23 38 38 38 22 27 27 27 27 27 24 45 24 24 24 24 24 24 24 24 24 24 24 24 24
Hewl Hewl SC SE	ADYSOFT MAMAX \$12 Bomb Busters \$2 Cosmic Bouncer \$2 Dragon's Lair. \$3 Dragon's Lair. \$3 Dragon's Lair. \$3 Dragon's Lair. \$3 Barymed. \$3 Expression Lair. \$4 Expressio	29 23 38 38 38 22 27 27 27 27 27 24 45 24 24 24 24 24 24 24 24 24 24 24 24 24
Hewl Hewl SC SE	ADYSOFT MAMAX \$12 Bomb Busters \$2 Cosmic Bouncer \$2 Dragon's Lair. \$3 Dragon's Lair. \$3 Dragon's Lair. \$3 Dragon's Lair. \$3 Barymed. \$3 Expression Lair. \$4 Expressio	2923388222777 all it, 455244524452445244524452445244524452445
REWINDS REWIND	ADYSOFF AMAMA S12 Some Busters S2 Cosmic Bouncer S2 Expans Expa	2923388222777 all it, 455244524452445244524452445244524452445
REWINDS REWIND	ADYSOFF AMAMA S12 Some Busters S2 Cosmic Bouncer S2 Expans Expa	292338 388222277 27338 384224 39336 39336 39336
REWINDS REWIND	ADYSOFF AMAMA S12 Some Busters S2 Cosmic Bouncer S2 Expans Expa	292338 388222277 27338 384224 39336 39336 39336
REWINDS REWIND	ADYSOFF AMAMA S12 Some Busters S2 Cosmic Bouncer S2 Expans Expa	292338 388222277 27338 384224 39336 39336 39336
REWITER SCOTT SERVICE	ADYSOFF	292338 388222277 27338 384224 39336 39336 39336
Hewl Hewl Hewl SC SE SE Hewl Hewl SE Hewl Hewl SE Hewl Hewl SE Hewl Hewl SE HE	ADYSOFF MAMAX \$12 Bomb Busters \$2 Cosmic Bouncer \$3 Cragons Lair. \$3 Castrymed. \$3 Cragons Lair. \$3 Castrymed. \$4	29923 38822277 38822277 44524 4452 44524 4452 4452 4452 4452 4452 4452 4452 4452 4452 4452 4452 452
Hewl Hewl Hewl SC SE SE Hewl Hewl SE Hewl Hewl SE Hewl Hewl SE Hewl Hewl SE HE	ADYSOFF MAMAX \$12 Bomb Busters \$2 Cosmic Bouncer \$3 Cragons Lair. \$3 Castrymed. \$3 Cragons Lair. \$3 Castrymed. \$4	29 29 29 22 27 27 27 27 27 27 27 27 27 27 27 27
REMINISC SEE SEE SEE SEE SEE SEE SEE SEE SEE S	ADYSOFF AMAX S12 Bomb Busters S2 Cosmic Bouncer S2 Dragons Lair. S3 Carlymed. S2 Cosmic Bouncer S3 Craymed. S2 Company S3 Company S4 Co	2923388222777 all t, 45/24/24/24/24/24/24/24/24/24/24/24/24/24/
Hewl Hewl SC Hewl Hewl Hewl SC Hewl Hewl Hewl SC Hewl Hewl Hewl Hewl Hewl Hewl Hewl Hewl	ADYSOFF	29 29 223 21 38 22 22 27 27 27 31 31 45 22 44 24 44 24 44 24 44 24 24 36 36 36 36 36 36 36 36 36 36 36 36 36
REWITERS SEE SEE SEE SEE SEE SEE SEE SEE SEE	ADYSOFF MANAX \$12 Bomb Busters \$2 Cosmic Bouncer \$3 Cragoris \$1 Cragoris Lair. \$3 Castrymed. \$4 Cas	2923 2138 2227 27 all it, 45 25 24 24 24 24 24 24 25 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28
REMINENT REM	ADYSOFF	2923 2213 2213 2227 227 227 227 227 227 227 227 227 2
REMINENT REM	ADYSOFF	2923 2213 2213 2227 227 227 227 227 227 227 227 227 2
Hewl Hewl Hewl SC SC SE SE SE SC	ADYSOFF MANA MANA S12 Bomb Busters S2 Cosmic Bouncer S2 Dragon's Lair S3 Graymed S2 Dragon's Lair S3 Graymed S4 Busters S4 Busters S5 Busters S4 Busters S5 Busters S6 Busters G1 Available for Deluxe Paint II. G1 Available for Deluxe Paint II. G1	2923388222777 all t, 45244244424442444444444444444444444444
REE Hearl Hearl SC	ADYSOFF MANA MANA S12 Bomb Busters S2 Cosmic Bouncer S2 Dragon's Lair. S3 Garymed. S2 Graymed. S2 Graymed. S3 Graymed. S2 Graymed. S3 Graymed. S4 Graymed.	2923388222777 all t, 45/2244/244/24/24/24/24/24/24/24/24/24/24/

Te Te	exture In Stoc	all k!
SPE	exture 2 C	-11
SPE		dii
	CTRUM HOLOBYTE	
u - I Fo		20
S	olitaire Rovale	22
Hewl To	etrisS TLIGHT	25
SPO	1 LIGHT	
New! St	eath Bringer	27 27 27
Marel To	peedball	27
STA	R SOFT	
Fo	ormula One	21
€ Fr	ost Byte	21
5	tock Market Game \$	19
S	rost Byte S econds Out Boxing S tock Market Game S anta Paravia In Stoc	k!
SHB	LOGIC	
E	uropean Scenery \$ light Simulator 2 \$ apan Scenery \$	20 32 20
m I	ight Simulator 2	20
Je	et	35
S	et Scenery Disk 7 or 11 \$ cenery Disk 9 In Stock RIZE INDUSTRIES	18
New! 5	cenery Disk 9 In Stoc	×:
n	eckton Artist S	23
S	tudio Magic\$	75
SUN	esktop Artist S tudio Magic S ISMILE SOFTWARE	
E	xtendS	29 27
H	incere	21
STA	nterchanne c	40
In	sterchange ObjectS	15
New! In	nterFont	92
New! T	urbo Silver Conversion\$	15
LAI	10	all
R	enegade	28
. 0	peration Wolf	28
New! ()	IRUS HC	112
X	-Cad	25
THE	OTHER GUYS	
P	romise	39
	latch it	29 Call
S	vnthia	75
THE	REE-SIXTY	
D	lark Castle	29
TIT	211	
C	razy Cars	27
New! F	40 Pursuit In Sto	ck!
0	off Shore Warrior In Sto	ck!
TRU	JE BASIC	
D	leveloper's Toolkit	
P	rue RASIC	09 74
i	ibraries (Each)	39
TSA	MEDIA	
Newl D	ioomer-Aid In Sto	ck!
UNI	ICORN	35
A	dv. of Sinbad desop's Fable III About America	35
Ä	III About America	333 342 335 335
A		35
A	rabian Nights	35
K	inderama	33
ra-L	ogic Master	Call
N	Magical Myths	
P	Read & Rhyme	35
F	Read-A-Rama	333
V	vord Master	35
UN	ISON WORLD	200
F	ant Gallery 1 or 2	S20 Call
F	antasy onts & Borders	Call
P	Print Master Plus	333
VEC	in Vit	529
Next A	AmiKit JEO VISIONS Data Disks For PageFlipper I	523
1	Data Disks For PageFlipper I	Call
New! [DataStorm H	110
E4. A	/ortex I	Call
WII	Rexx	36
01	ARexx.	36
wn	ROPERFECT CORP	
01	NordPerfect	179
1	vorurerrect Library	lisu
Ou dur at t	r objective is to carry every p ct for the Amiga — and sell th the best prices. Our policy is as competitive as possible on oduct prices. If you find a lov ce, please give us a call. It is ager close to possible for us	ro- em to all ver

Microfiche Filer Plus

list all the products we carry. If you don't see it listed, please call.

New! Products are new and in stock.
Products had not been released at press time.

Products have been marked down in price.

All other products are normally in stock (as well as hundreds more).

Facsimile (FAX):

Orders Only: 800-BE-A

In California: 800-843-2842



415-365-2073

Now on Compuserve: 71230, 2412

Send Mail Orders to: GO AMIGO 2682D Middlefield Road, Redwood City, CA 94063 (Money Order, Cashier's Check, or Qualified P.O. only. California residents add sales tax.)

SHIPPING INFO: Software Shipping rates are \$2.50/item using UPS Ground service (max. \$7.50) or \$4.50/item using UPS 2nd Day Air Service (max. \$13.50). For Federal Express shipping rates and conditions, see opposite page. Call for hardware rates. APO. Mail, rote shipping extra. Call for more into. "RETURN & REFUND POLICY: All returns must have an RIMA-#. Call Customer Service to request an RIMA-#. Detective merchandise under warranty will be repaired or replaced. Returned product must be returned postage prepaid with all original packaging. Through December 31, we are offering a money-back guarantee on many products we sell. It does not apply to product, and there are some restrictions, so call for complete details. UTHER POLICIES: We do not charge your card until the product actually ships. Purchase order customers must have credit application on file. No surcharge for VISA and MasterCard. When ordering with credit card, PLEASE include expiration date and name of bank! Call Fridays for unannounced specials.

Amiga is a trademark of Commodore-Amiga. Go Amigo is in no way associated with Commodore-Amiga. Delivery subject to product availability • Prices subject to change • Circle 26 on Reader Service Card

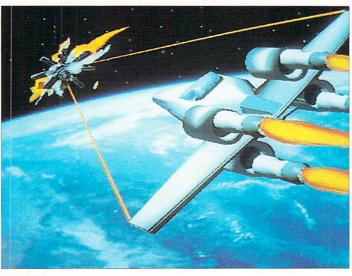
WHAT'S NEW?

There's much to be thankful for this month—
roll up your sleeves and dig in...

Compiled by Jan Jackson

SPACEY

LIVEN YOUR ANIMATIONS with 3-D futuristic spacecraft drawings. The Starships 2050 Model Library (\$39.95 for three-disk set) contains moon bases, fighter craft, probes, satellites, and weapons machinery plus digitized NASA photographs of our solar system for backgrounds. You can use these renderings with either Byte by Byte's Sculpt-Animate series or Impulse's Turbo Silver. Take to the stars by calling Polar Arts, 14145 Janna Way, Sylmar, CA 91342, 818/362-8565. Reader service number 511.



Out-of-this-world images.

SIMULTANEOUS

CONTROL SOUND, graphics, and text in your multi-media presentations with UltraCard (\$50). UltraCard can make any portion of your screen a "hot spot." By clicking on this spot with your mouse, you can play a sound, display information, or run other programs. UltraCard supports PAL and NTSC modes, ARexx, and hypertext. Contact Intuitive Technologies, 2700 Garden Rd., Suite 6, Monterey, CA 93940, 408/646-9147. Reader service number 504.

HARMONIOUS COEXISTENCE

OPERATE YOUR flickerFixer and external NTSC genlocks simultaneously in an A2000 with the flickerFixer Genlock Compatibility Option (\$50). Your system can generate high-quality VGA-comptible display while genlocking an NTSC sig-

nal because the module mounts onto the flickerFixer board and not in an expansion slot. To bring harmony to your workstation, contact MicroWay, PO Box 79, Kingston, MA 02364, 508/746-7341. Reader service number 505.

GEOGRAPHER'S CORNER

YOU CAN VIEW the terrain of any area of the continental US with **Digital Landscape** (\$124.95). The program produces hi-res 3-D wire-frame renderings and color-coded contour maps. You can adjust the line intervals to see more or less detail on your maps and scale and rotate the wire-frame models 360 degrees.

Saving the renderings as IFF files enables you to load them into other programs to add text, rivers, forests, highways, cities, and so on. Chart a course toward Digiscape Software, PO Box 113058, Carrollton, TX 75011-3058, 214/241-9891. Reader service number 514.

CROSSOVERS

READ AND WRITE 360K and 720K MS-DOS-, PC-DOS-, or Atari ST-formatted disks directly from AmigaDOS with CrossDos (\$30) file system. CrossDos works with standard Amiga hardware. With it, you can create directories, set file/directory dates, seek file positions, and allocate cache buffers. To broaden your focus, call Consultron, 11280 Parkview, Plymouth, MI 48170, 313/459-7271. Reader service number 508.

HOUSE OF CARDS

TREAT SCREEN FLICKER in your Multisync monitor with Flick-Off. The unit plugs into the Denise socket and uses the Amiga D/A converter and video output. A shrink option lets you fit two non-interlaced screens together on one interlaced display.

Maximegs supplies your A500 with fast RAM, chip RAM, and a battery-backed clock. No matter which configuration you choose (512K, 1MB, 1.5MB, or 1.8MB), with a super Agnus chip, your machine will recognize the first 512K as chip RAM. The remainder is used as slow RAM. For pricing and more information on Maximegs or Flick-off, contact M.A.S.T., 3881-E Benatar Way, Chico, CA 95928, 916/342-6278. Reader service number 510. ►

Since 1982 Computation Order Toll Free Order Toll Free 800-558-0003 Consumer Electronics 800-558-0003

IVS Trumpcard Hard Drive Packages for A2000 Series

	Seagate	
8T-157N	49 MEG	519 DEL
8T-177N	60 ME8	749 DEL
8T-277N-	1 60 MEG	.619 DEL
8T-296N	80 MEG	649 DEL

Quantum Pro Drive 40 MEG SCSI Pro Drive 629 DEL 80 MEG SCSI Pro Drive 949 DEL 100 MEG SCSI Pro Drive 1029 DEL

these kits include IV8 Trumpoard 908I hard drive ctri cable, software and FREE delitery in the contiguous USA. This is not anassembly kit I it is a package.

Hard Drive Cards (A-2000)

Seagate

8T-157N	49 MEG	 539	DEL
8T-177N	60 MEB	 769	DEL

Quantum Pro Drive

40 MEG SCSI Pro Drive	649 DEL
80 MEG 9CSI Pro Drive	969 DEL
100 MEG 9CSI Pro Drive	1049 DEL

these cards include IV8 Trumpcard ctrir, mounting brkt, cbl, software, and FREE delivery in the contiguous USA.

IVS INFINIT 40

Removable Media Cartridge Drive Pack	age
INFINIT40/I1199	7
INFINIT405 *1295	7
INFINIT40D *1399)
* Requires Trumpcard or Trumpcard 50	0

Trumpcard 500 Hard Drive Packages for Amiga 500

Seagate

ST-157N-49 Meg 579 Deliveredi ST-177N-60 Meg 799 Delivered

Quantum Pro Drive

40 Meg SCSI Pro Drive - 679 DELIVERED 80 Meg SCSI Pro Drive - 999 DELIVERED 100 Meg SCSI Pro Drive - 1079 DELIVERED

npeard 500 Ram Expander avails 512k • 1 MEG • 2 MEG • 4 MEG

Seagate SUPER SALE

ST-125N 20	Meg - SCSI		278
ST-157N 49	Meg - SCSI		349
ST-251N 40	Meg - SCSI		375
		SI	
ST-296N 80	Meg - SCSI		478

Quantum

Pro Drives

40 Meg SCSI Pro Drive529
80 Meg SCSI Pro Drive899
100 Meg SCSI Pro Drive929

XETEC Fast Card Hard Drive Packages for Amiga 2000

Seagate ST-157N-49 Meg ... ST-177N-60 Meg ..

Quantum Pro Drive 40 Meg SCSI Pro Drive 629 DEL 80 Meg SCSI Pro Drive 949 DEL 100 Meg SCSI Pro Drive 1029 DEL

Card features Xetec's DMAx hard, autoboot ROM, a config circuitry.. 25 pin SCSI conn., disk, utilities many FREE DELIVERY IN THE CONTIQUOUS 48 STATES

XETEC Fast Card System

HOIG DIVE			ALC: NO	-1111		•	
ST-157N-49	Meg	eage	ate		699	Del	
ST-177N-60	Meg				919	Del	

With power supply and fan

FREE DELIVERY IN THE CONTIQUOUS 48 STATES



MASTER 3A Disk Drive \$125 1010 Compatible

VIDEO PACKAGE

PANASONIC 1410 CAMERA 16MM LENS WITH VARIABLE IRIS COPYSTAND WITH LIGHTS DIGIVIEW GOLD \$419 DELIVERED!

PRINTERS Panasonic 1180 NEW NEW NEW ... Panasonic 1191 NEW NEW NEW ... 185 CALL Panasonic 1124 NEW 24 Pin ... Star NX-1000 299 Star NX-1000 Multi Font 2 NEW NEW NEW Star NX-1000 Rainbow (color)

8tar NX-2400	275
Moderns Amiga 1680 Modem Avatex 1200E Avatex 2400 Avatex 2400 Avatex 2400 External NEWI Supra 2400zi Internal (A2000)	
Amiga 1680 Modem	99
Avatex 1200E	69
Avatex 2400	139
Avatex 2400E	109
Avatex 9600 External NEWI	839
Supra 2400zl Internal (A2000)	139

Supra 2400 Ext. Modem & Cable •\$125 •

FREE DELIVERY

			A	MIGA SOFTW	ARE		
1943		Combat Coune		Jgsow30.96	Off Shore Warrior24.95	Row Copy	T.V. Sports Basketball 30.96
30 Options	31.95	Comic Setter 59.95		Jinks	Omega31.95	Red Lightning 38.95	T.V. Sports Football
30 Pool	22.95	Comic Art Disis (each) 20.95	Flendish Freddy 31.95	Joon of Arc	Omni Baskertball31.95	Reel Fish'n29.95	Talespin
4th and inches	28.95	Contra		Joe Blode	Omniplay Baseball: 5 on 5 31.95		Tanglewood 24.95
		Crary Can		Journey	On Line Platinum 58.95	Return To Atlantis 13.95	Technocop
Action Honter	24.95	Crystal Clear Turbo	Pre Zone	Karafonts Headlines 1 or 2 44.95	Operation Clean Streets 25.95	Revenge of Defender 21.95	
Adventures of Sinbad	114.95	Curse Burter	Flight Simulator II	Karafonts Subhead	Operation Wolf22.95	Rhyming Notebook 31.95	Tetroquest
Adventures of Shibad	23.90	Cyber Complex 21.95	European Scenery Dak 19.96 Flow	Keef the Thief	Optics	Rick Dangerous31,95	
		Daily Double Hone Racing . 19.95		Kind Words V2.0	Outrun	Rick Davis Soccer 1 Meg 29.95	
Alterrate Decity : City	24.95	Dark Side	Forgotten Worlds	King Arthur's Quest/Excal 31.95	Page Renderer 3-D 94.95	Rick Davis Soccer 512K 24.95 Ring Side	
Amino COS Toolflow	34.95	Data Retrieve Pro 179.98	Formation 44.96	King's Quest N	Page Setter 59.96	Ringling Bro's Circus 24.95	
Animation Sound Track	69.95	Data Storm24.95	Fright Night	Kingdoms of England 26.95	Page Stream	Road Challenge	
Animation Titler	48.96	Deathbringer 24.96	Front Page	Knights of Legend 31.95	Dat Matrix Fort 1-5 ea. 24.95	Road Roider24.95	
		Defender Of The Crown 31,95		Kristal, The31.95	Page Thinker 59.95	Roadwar 2000	Their Finest Hour, Britain 38.95
Anim 4-0 Jr	87.95	Deja Vu: 1 or 2 31.95		Lancelot 26.95	Page/lipper Plus/FX 87.95	Robocop	
Anim. Editor	39.96	Deluxe Music Constr 20 61.96		Last Duel24.95	Pen Pal 84.95	Rock Challenge	Third Courler 28.95
Animator (Aegis)	81.95	Deluxe Paint III 97.95	Games : Winter Ed	Last Inca, The24.95	Phosor	Rocket Ranger31.95	Three Demon 69.95
Animator Apprentice	174.95	Deluxe PhotoLab 97.95		Lebure Sulf Larry	Photon Paint 2.0	Roger Robbit	Thunder Blade29.96
Annals of Rome	23.95	Deluxe Print II	Gettysburg	Leisure Suit Larry I	Photon Paint Surface 19.95	Romantic Enct @ Dome 25.95	
Archipelogos	23.95	Deluxe Productions 128.95	GFA Bosic 3.0 87.96	Leonardo	Photon Video: Cell Anim 87.95	Rublcon Alliance	
Architectural Design Disk	22.90	Detuxe Video II	Gladiator	License to Kill	Photon Video Transport 169.95	RVF Honda24.95	Than
		Demon's Winter		Logicworls 184.95	Pioneer Plague25.95	Savage	Iom & JenyCALL
Aunt Artic Action	25.05	Denaris	Gold Runner 2	Lords of the Rising Sun 30.96	Pixel Script	Scovenger	Trocers
Artura	25.96	Design 3D	Gold Rush 24.96	M2 Amiga147.95	Platoon	Scribble Platinum 87.96	
		Designosourus		M2 Amiga Debugger 77.95	Pocket Rockets	Securities Analyst	
Award Maker	29.96	Devon Aire Diamond Caper 31.96	Gunship	Magelan 1.1 114.95	Police Quest 1 DR 2	Sex Vixers-Outer Space 22.95	
Awesome Arcade Pack	32.96	Digidroid 59.96	Halls of Monteruma	Magic Johnson 512 24.95	Pool of Radiance	Shadowaate	
Ass of Rage	31.96	Digipaint3.0 64.95	Hardbal28.95	Magic Johnson 1 Meg 31.95	Populous	Shinobi	
BAD	29.96	Digiview Gold 124.95		Manhunter - New York 31.95	Ports of Call	Shogun	TV Text
		Digitwork 3D 82.95		Maniac Mansion 29.95	Poetscript Fonts A,B,C.ea. 24.95	Shuffleouck Cafe24.95	Twilight Zone 24.95
		Dino WanCALI		Mavis Beacon Typing 31.95	Power Windows 2.5 54.95	Side Arms	Twilight's Ransom 19.95
		Dinosaur Discovery Kit 25.95		Mean 18	Powerdrome26.95	Silent Service24.95	
Bar Garnes	28.96	Disk 2 Disk	Heat Wave28.95	MediaLine Clip Art	Precisely 48.95	Sim City 28,96	Ultima II24.95
BORD I TON	31.96	Disk Mechanic		Miami Vice	Print Master Plus24.95	Skate Wars 31.95	
		Dos 2 Dos		Michton Ht Disk ≠132,95	Pro Script	Sky Blaster 18.95	
Between	28.95	Double Dragon	Hole In One	Micro Fiche Fler Plus	Pro Sound Design	Sky Chase	
		Doug's Math Aquarlum 46.95		Microbot Design Disk	Pro Video Gold	Sky Fox II	
Battle Hawle 1942	31.95	Dr. Doom's Revenge 28.95	Hostoge 29.95	Mid ModicCALL	Pro Write 2.5	Slipped Stream	
Battletech The Cr Hk Inc.	31.95	Dragon Force	Human Deelan Disk 22.95	Midl Rec Studio V1.1 39.95	Pro-Draw	Softwood File II	
Boud Bandit	30.95	Dragon's Lair		Midl View 23.95	Professional Page228.95	Sorceror Lord	
		Dragon's Lat II CALL		Might and Magic I38.95	Structured Clip Art 36.95	Space Harrier	Interior Design22.95
		Draw A-2000 159.95		Mighty Nerds31.95	Templates	Space Quest 1 or 2	VindicatorsCALL
Black Jack Academy	24.95	Dungeon Marter 24.96		Mindrol 19.95	Profonts 1 & 2 21.95	Space Quest 3 CALL	VIP Professional 59.95
Blasteroids	CALL	Dungson Quest	Indiana Jones-Graphic Adv. 31.95	Mixed Up Mother Goose 19.95	Project D+ Backup30.95	Space Rocer 19.95	Virus Infection Protection 28.95
Blood Money	25.96	Dunkap Utilities47.95	Indoor Sports	Modeler 3D 56.96	Project Master 129.95	Speedball 24.95	Virta 3-D 87.95
Bue Angels	28.96	Dynamic Drums	Innovatools 2 48.95	Moeblus	Prospector Mazes of Zor 25.95		VTX Online51.95
Bride of the Robot	24.95	Earl Weaver Baseball	Instant Music	Movie Setter	Pub Games	Star Command 31.95	W Shel28.95
Broadcast Titler		MLBPA Starts		Music X	Publisher's Choice	Star Ray 29.95	War in Middle Earth29.95
		Ban Performer		My Paint Data Disk	Puzzle Storybook	Star Treic The Final Front 36.95 Star Wars	Wayne Gretzky Hockey 29.95
		Elminotor		Netherworld 22.95	Quick Silver 41.95	Sterlar Crusade	Who What When 44.95
Cottomia Games	31.95	Empire	Invision	Neuromoncer	Qk 22.95	Street Fighter 25.95	Wiles 25.05
Collarapher	72.96	Excelence Meg 158.95	If Come From The Desert 31.95	New York Warriors	Quarter Back 42.95	Strip Poleer II	Word Woher 25.95
		Biolon		Night Force	Questron II 32.95	Studio Magic	Wings Of Fury
Captain Blood	31.95	Express Point 3.0 79.95	JN Courses of 1989 14.95	Novelty Fonts	Rambo II		Worle Platinum, The CALL
Captain Fizz	19.95	Eye of Horus	JN Course Disc II 14.95	Nuclear War 32.95	Rampage	Super Book	World Affas
Carmen SanDiego/Time	28.95	F-19 Stealth Fighter CALL		Obliterator		Super Star Basketball CALL	World Class Leader Board 28.95
Carmen SanDiego/ USA.	31.96	F-40 Punuit Sim	M	SCHUANEOUS HARD	WARE 25.96	Superbase Personal	World Tour Golf 13.95
Centerfold Squares	18.95	FA/18 Interceptor	AMI GEN		INT. DR	Superbase Personal 2 87.95	X-Specs 84.95
Cheemaster 2000	28.95	Fasery Tale Activen	SUPER GEN	1669 COLOR SPUTTE	t	SuperBase Pro 3.0	Zak McKracken 29.95
Cheemaster 2100	31.96	Falcon	SUPER GEN 2000S INT GENLOCK.		ANNER	Superplan 87.95	Zony Golf 26.95
Che Marter Detection	32.96	Fontovision	MAGHI 4004 GEN LOCK			Superator ice Hockey 31.96	Zoetrope
Colony	31 05	Fast Break	FUCKER FORER			Sword of Sodan28.95	ZONK Zero
	31.70	27.YO	PERFECT SOUND	WYF 68030 ACC	C. BD CALL	Swords of Twillight	Zynops22.95

VISA

MasterCard

NO CREDIT CARD SURCHARGE

WI ORDERS AND INFORMATION 414-357-8181 FAX 414-357-7814 P.O. BOX 17882 Milwaukee, WI 53217

ORDERING INPORMATION: Spee by eye law. For fast delivery send deather's check or morphware orders 0% shipping for hardware, minimum \$5.00, MelateCard and Visa orders please in \$3.00, All other inhipping doubties to see new and include lactory warranty. We do not guarantee compatibility & version \$5.00 to our owners and version by subject to change set whould not hipping and handing are non-coeptial. Prices and a vessibility in uplect to change set whould notice. er. Personal and company checks allow 14 business days to clear, School P.O.'s welcome, C.O.D. charges are \$4.00. In Continental U.S.A. Include \$1.00 for if 4, explation date and signature. Wit residents please include \$% sales tax, HI, AK, FPO, APO, Purtor Roc and Canadian orders, please add \$% shipping, and hearted U.S.A. are shipped first clear is insured U.S. mail, if foreign shipping charges exceed the minimum amount you will be charged the additional amount AI uses all sales are Thai. AII Detective returns must have a return authorization number. Please call (414) 357-5615 to obtain an R.A. 8 or your return will not level. We tell the tells verying a residual to use used to the control of the con

ATTENTION SUBSCRIBERS

We occasionally make our mailing list available to other companies or organizations with products or services which we feel might be of interest to you. If you prefer that your name be deleted from such a list, please fill out the coupon below or affix a copy of your mailing label and mail it to:

IDG Communications/Peterborough AmigaWorld P.O. Box 58804 Boulder, CO 80322-8804

Please delete my name from mailing lists sent to other companies or organizations.

AmigaWorld

Name
Address
City
State
Zip

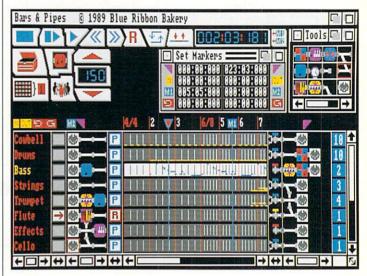
AmigaWorld P.O. Box 58804, Boulder, CO 80322-8804

CARRYING TUNES

BARS & PIPES, an object-oriented musical composition system, helps you guide your musical input from conception to performance. The package consists of four elements. Within the Pipeline module, you arrange pipe-and-valve graphics (each pipeline represents one track) to determine the flow of your input. In the Toolbox, you will find icons

each of two MIDI inputs, MIDI merging, two independent processors, universal-channel changing, event filtering, selectable auxiliary MIDI output, and programmable battery-backed memory. Get the details from Future Music, Box 1090, Reno, NV 89504, 702/826-6434. Reader service number 515.

A "dynamic riff sequencer,"



Musical plumbing.

for a note splitter, transposer, and other tools. Click these icons and place them on individual pipes in any order to modify the information that flows through them. You can record any number of tracks in the Sequencer, and then fine tune your scores with the Editor. You can edit key, rhythm, and chord-change information for algorithmic compositions and hear each note as you alter it. Call Blue Ribbon Bakery, 1248 Clairmont Rd., Suite 3D, Atlanta, GA 30030, 404/377-1514. Reader service number 512.

For musicians with MIDI connection problems and limited space and funds, the compact **Pelican MIDI Processor** (\$149) might be a viable solution. The unit features a channel and event-processor for

Hyperchord lets you manipulate sequences of 40 notes or less (riffs) by varying rhythm, pitch, and order in real time. In Design mode, you can create riffs and variations of them using functions such as smear, rotate, weave, reverse, and mix. Plat mode lets you improvise and loop riffs in the bank provided. To create larger musical movements, simply string your sequences together.

On the lighter side, **Pix-ound** provides an unusual diversion—a musical screen interpreter. Load any graphic into the program, and Pix-ound translates the red, green, and blue content of each pixel into chords. Then, simply move your mouse cursor

across the screen to hear what you see. Both Pixound and Hyperchord use MIDI in addition to the Amiga's internal voices. For artistic motivation, call Hologramophone Research, 331 E. 14th St., Suite 4B, New York, NY 10009, 212/529-8845. Reader service number 513.

WITH DESIGN IN MIND

THE ORIGINAL developer of X-CAD, Cadvision International, regained control of the product and has now produced a streamlined version. In addition to a revised interface, X-CAD Designer (\$149.95) features architectural, electrical, electronic, or mechanical symbol libraries. External file formats supported include AutoCAD DXF, IFF, and Aegis Draw Plus. To get back to the drawing board, contact American Software Distributors, RR 1 Box 290, Bldg. 30, Urbana, IL 61801, 217/643-2050, or in the UK: Cadvision International, London, England, 1-602-2627. Reader service number 506.

DataPlot lets you turn ordinary numeric data into graphs of various sizes. The program accepts ASCII files generated by other programs and plots them onto your screen or, with its print option, onto paper. You can label your charts with scale information and other text in file as text strings. Bytes and Bullets can fill you in on details: Rt. 3 Box 3532, Manchester, TN 37355, 615/596-2077. Reader service number 507.

PERIODICALS

GETTING YOU INTO print via desktop publishing is **Saxon Publisher's** intent with features like professional four-color separations, bitmapped textures on text, and structured drawings. For \$445 you get EPS support, vertical justification, and drop caps. If this package suits your style, contact Saxon Industries, 14 Rockcress Gardens, Nepean, Ontario, Canada, K2G 5A8, 613/226-2355. *Reader service number 502*.

Professional Page V1.3 (\$395 US), the latest version of Gold Disk's desktop-publishing package, includes Compugraphic outline-font technology supporting dot matrix, inkjet, and LaserJet compatible printers. The program's proprietary font-caching scheme allows on-screen character representations at any point size.

In addition, Gold Disk is offering two-supplementary products both retailing at \$59.95 for use with Pro Page. The Professional Page Templates and Design Guide contains over 50 configured templates on disk and a manual with design and layout tips. Preset type specifications include typeface, size, style, justification, and text runaround. The Structured ClipArt package includes graphics for a variety of topics: sports, holidays, maps, food, and basic symbols. For fullpage coverage, contact Gold Disk, PO Box 789, Streetsville, Mississauga, Ontario, Canada, L5M 2C2. Reader service number 503.

MOZART NEVER HAD IT THIS GOOD!

Sure, ol' Wolfgang Amadeus was a prodigious musician. And how many composers of the 18th century can say they've been on Broadway, won an Oscar and had an obnoxious German pop song written about them? But Mozart never reached his full potential. Why? Simply put, he never used Bars&Pipes, the creative musical advantage.

Take a look at Bars&Pipes' four major elements and prepare to break the barriers of your imagination!





The *Pipeline* guides your musical input from conception to performance. By arranging the pipes and

valves, you can direct the flow of musical information on a track-by-track basis. Each *Pipeline* can process information prior to or after it's recorded for the ultimate in flexibility.



Bars&Pipes'
Toolbox is
chock full of
musical magic
that processes
MIDI information as it flows

through the Pipeline. Explore new horizons with such Tools as the keyboard splitter, event filter, randomizer, chord substituter, inverter, transposer, phrase-shaper, harmony generator, counterpointer and quantizer, just to name a few. Or, invent your own macrotools with Bars&Pipes, Create-a-Tool feature. Because Bars&Pipes is an open-ended system, there's no limit to what you can do as new tools become available.



Bars & Pipes, Sequencer has no limit to the number of tracks you can record. Simply drag your tools

of choice onto the *Pipeline*, tickle the ivories (or plastics as the case may be) and presto-change-o, a star is born! Features include: Global cut, copy and paste commands; Auto-locate registers; Punch in and out; Looped mode recording; Global display of music on all tracks; A-B-A global song construction and editing; High resolution timing (192 clicks

per quarter note); Tempo maps; Sync to external MIDI or MIDI Time Code; Audible Metronome; Rhythm, chord, key, lyric and time signature input; MIDI file format compatibility.



Bars&Pipes sports the most complete *Editor* of any music package. Take your pick of a piano roll

format or see your music displayed as bars on a staff. Open multiple edit windows at once. Drag notes with the mouse. Cut, copy or paste your music. Use Tools to process sections on a note-by-note or phrase-by-phrase basis. Type your lyrics directly over the music and Bars&Pipes will print out a lead sheet. Edit key, rhythm and chord change information for algorithmic composition.

With Bars&Pipes, you'll never have to carry a tune in a bucket again! And, you don't have to have some bizarre Latin middle name to become a virtuoso.

So, for all the details we couldn't squeeze into a 1/2 page ad, write or call us at:

Blue Ribbon Bakery 1248 Clairmont Road, Suite 3D Atlanta, Georgia 30030 (404) 377-1514



HORS D'OEUVRES

An assortment of tips and techniques

from fellow Amiga users.

Compiled by Tim Walsh

SPELL CHECKING

IF YOU USE WordPerfect with one or more megabytes of RAM, you're in for a treat the next time you want to spell

check one of your documents.

and tear on your disk drive.

WORDPERFECT

The Amiga version of WordPerfect is painstakingly slow when performing a spell check, simply because the computer has to access the disk drive to check the spelling of each word. Not only is this inefficient, but it also puts a lot of wear

Here's a way to copy the spelling checker to RAM to make this process lightning fast. First, enter the following script file on your favorite text editor, such as ED or TextED Plus:

CD DF0:
ECHO "Copying LEX.WP to RAM:"
COPY SPELL.THES:LEX.WP
to RAM:
Path RAM:
CD DF0:
ECHO "Spell checker is now in RAM!"

For demonstration purposes, save this file to disk with the filename RAM-SPELL. When ready, activate it from the CLI with the following command:

EXECUTE RAMSPELL

(Since the LEX.WP is quite large (290K), it takes a while to copy to RAM.) Now, activate WordPerfect, load the document to be spell checked, and select the "Spell. . ." option from the Special menu. At the "Enter path to dictionary file:" prompt, enter RAM:LEX.WP and the spell-checking process will proceed as it normally does, except in a fraction of the time and with no floppy-disk access.

When you're finished, the spell checker can be removed from memory by entering DELETE RAM:LEX.WP.

The only limitation to this process is that it is not a good idea to run WordPerfect, its accompanying Print program, and my RAM spell checker all at once. Not only does it create unnecessary overhead, but insufficient-memory errors could occur on systems equipped with 1.5MB or less RAM.

Mark Gillman Winnipeg, Manitoba, Canada

SAVING PRECIOUS MEMORY

MINIMIZING MEMORY USAGE is essential when running word processors and other application programs on A500s and A1000s equipped with only 512K. Programs such as excellence! and PageStream won't print on 512K machines. Likewise, even Amigas equipped with one megabyte of RAM occasionally crash or get bogged down when multitasking on memory-intensive programs.

One simple solution is to run your applications with Workbench deactivated, which saves 16880 and 13480 bytes of Fast and Chip memory, respectively. This is enough additional free memory to print with both excellence! and Page-Stream on 512K machines.

Eliminate Workbench by holding down the CTRL and D keys simultaneously during power-up or after a reset; this will bring up a **BREAK - CLI window. At the prompt, enter CD DF0: or the appropriate drive name that holds the file to be activated and press Return. Next, enter STACK 16000 at the next prompt and press Return again. Finally, enter the name of the file to be activated (e.g., ATALK3, EXCELLENCE!, WP, etc.). The only disadvantage to this process is that all other applications also need to be activated from the CLI until

you bring Workbench back to life by either resetting the computer or running the startup-sequence from the CLI.

> K. W. Spry Huntersville, NC

AUTOMATIC AMIGA BASIC BACKUP

IF YOU'VE EVER lost an Amiga Basic program because you forgot to back it up, here's some unique AmigaDOS 1.3-compatible program-protection insurance. Just add the following lines to the beginning of your BASIC code:

version\$ = MID\$(STR\$(CLNG (TIMER)),2)
PRINT "Saving as rad:BACKUP"; version\$;
SAVE "rad:backup" + version\$
PRINT "...done!"
'the program continues here

The TIMER command in the first line assigns the filename an incrementing number, to prevent erasing earlier versions of the program already saved. RAD is used in place of RAM as the destination device, because its contents are not as volatile and can survive a warm reboot, which RAM contents cannot.

Mark Kelly

Swan Hill, Victoria, Australia

Editor's note: To configure a RAD disk with the default AmigaDOS 1.3 filename of RAMBO, execute the following from a CLI:

MOUNT RAD:

IF NOT EXISTS RAD:c

MAKEDIR RAD:c

COPY C:COPY TO RAD:c

COPY C:DIR TO RAD:c

ENDIF

PATH ADD RAD:c

■

M.C.S. WE DON'T CLAIM T PRICES

THE LOWES ON AMIGA ...

Drive

WE PROVE IT!
NOBODY BEATS US!

THINK YOU FOUND A GOOD DEAL? OURS WILL BE BETTER!

HARD DRIVES

SUP	RA
24	00i
\$98	ORLOWE

30	OR LOWER!
• Supra 2400	119*
Supra 2400 ZI.	128
Avatex 2400 E	
Avatex 2400	
W/Cable Purchas	e-Add \$10 Alone

12K RAM A 500 from

OH LOWLIN:
CONTROLLERS
★Hardframe ★Supra ★GVP
★Xetec ★IVS ★C.Ltd
New Low Priced

Туре	2000	Only	FC 2000	FC 500	5
3.5 DRIVES	100		V I will		
30MG ST-138N	475 DEL	310	465 DEL	655 DEL	54
49MG ST-157N	518 DEL	348	515 DEL	695 DEL	57
60MG ST-177N	755 DEL	568	748 DEL	915 DEL	79
QUANTUM 40MG	625 DEL	525	625 DEL	825 DEL	67
QUANTUM 80MG	945 DEL	895	945 DEL	1135 DEL	99
QUANTUM 100MG	1025 DEL	925	1025 DEL	1215 DEL	107
AM 20M	IGA G HD)	2	M	G

199

. 5 500	500	2000	500
655 DEL	545 DEL	625	750
695 DEL	575 DEL	_	-
915 DEL	795 DEL	_	_
825 DEL	675 DEL	780	995
1135 DEL	995 DEL	1050	1375
1215 DEL	1075 DEL	1150	1475
-	0		
IVI	G R	2AR	V
	655 DEL 695 DEL 915 DEL 825 DEL 1135 DEL 1215 DEL	655 DEL 545 DEL 695 DEL 575 DEL 915 DEL 795 DEL 825 DEL 675 DEL 1135 DEL 995 DEL 1215 DEL 1075 DEL	655 DEL 545 DEL 625 695 DEL 575 DEL — 915 DEL 795 DEL — 825 DEL 675 DEL 780

OR LOWER!

Xetec Trump GVP

GVP

IVIIJU.
•Gen One 499
Processor Accelerator Call
• Panasonic 1410 185
• Super Gen 670
CSA Midnet racer Call
•Sony 3.5 DS/DD 12(10)
•Sony 3.5 DS/DD 12(10) •Subsystem500/1000
• Hardframe 238
Digiview Gold128
• Digidroid 62
•Copystand
Mini Gen New Low Price
•Image ScannerCall
•GVP Systems Call
• Frame Grabber
• Gold Disk Scanner Call
•Amiga Mouse \$42
VI500 Video Interface 59
• Easyl 500/1000/2000 from 299
•Flicker Fixer
• Scanlock \$800
• Elec.ColorSpltr90
•Live 500/1000/2000 Call
Syquest 44 mg Call

MISC.

3.5 DRIVES

			3.11				
	FR	ЭN	1				
•3.5 Internal							. 98
3.5 Dual Drive							245
Amiga 1020 Dr							180
OR LO	WC.	ER	!				
Master 3A		• F	=14	2)	,	D	ata

•Amiga 1020 OR	Drive LOWER!	180
 Master 3 	BA • Flex	Data

STAR
219
RAINBOW
KAINDUW

UMIIADOAA
●NX1000170
 Okimate 20 Cal
 Panasonic 1180
 Panasonic 1124
*W/2 Ribbon Purch-Add \$10 alone
OR LOWER!

\$24

\$21

DISCOVERY

Arkanoid II

Grabbit

Phoenix	•C	Lto	
•Vault •Xe	tec	·Su	pra
 Many M PRICED 	ore!	Ca	
PRICE	1 OT (MOVE	

FROM \$

COMPLETE

\$20

SCall \$18 \$24

ora !!	Starboard 2 0 K Inboard 0 K Megaboard 2000 Megaboard 2000 Pro Ram 2000	235 235 (1mg) 375 (2mg) 449
	ROILLUSIONS	Dynamic Studio
	Plummet \$21	Sound Oasis
Tu	rbo\$18	OMNITREND
Bla	ick Jack Academy \$24	Universe III
Cri	aps Academy \$24	Breach II
Da	ta Disks	Breach
	covery Mathor Spell \$24	Paledin
	ery Tale\$30	Scenerio Disks
Ph	oto Vid Cel Animator \$90	ORIGIN SYSTE
Mi	ısic X	Omega
	oton Paint II \$90	Times of Lore

FROM

•8-Up Board

Unidrive		11/2 11
ABACUS	Centerfold	Squares Languages
Amiga Dos Tool Box \$36	Linkword	Languages
Assempro	* Strip Poke	er 2
Assempro. \$60 Becker Text \$90	ASDG	
Data Retrieve. \$48 Text Pro. \$48	FACC II.	
Text Pro	Cyanus E	d .
Disk Drives Inside/Out \$27	AVANTE	GARDE
Amiga Tricks & Tips \$18	Benchmark	k Module 2 .
Amiga C Adv\$33	BAUDVIL	LE
Amiga Dos Inside/Out \$18	Award Ma	ker Plus
Amiga Machine Lang \$18		rary
Amiga C for Beginners\$15	BETHESD	Δ
Amina Suc nma Guide \$33	★ Wayne Gre	
Amiga Sys prog. Guide\$33 Amiga Basic Inside/Out\$23	BRITANN	LCA HOCKEY
Amiga for Beginners \$15	liacou	ICA
Amiga 3D Graphics \$18	Designees	
Amiga 30 Graphics \$18		aurus
More Tricks & Tips \$18	BRODERE	UND
ABSOFT	Archipelag	os Basketball
AC/Basic 1.3\$117	Omniplay	Basketball
AC/Fortran\$180	Carmen Sa	nDiego World
ACCESS	★ Sim City Fantavisio	
Leader Board Dual Pk \$21	Fantavisio	n
World Cls Ldr Board \$27	Star Wars	
ACTIONWARE	BROWN V	WAGH
Prison \$24		r
Capone \$24	* Pen Pal	
Phaser Gun \$46	BUENA V	ISTA
P.O.W \$24	Roger Rat	bit
ACCOLADE	Sculpt An	BYTE
Super Cars. \$14	Sculpt An	imate 4D
Super Cars. \$14 Shoot em-up Const. Kit \$15 Heavy Metal \$27	Sculpt/Ani	mate 4D Jr
Heavy Metal \$27	CENTAUR	SOFTWA
California Challenge\$14	World Atla	S
Rubble Chost \$21	BAD	
Bubble Ghost	B.A.D	COAST
Hard Ball \$27	MAC to D	05
Hard Ball	★ DOS 2 DO	05
Mean 18 \$27	+ Ouarterba	ck
Medii 10 \$27	* Quarterna	CK
★ Test Drive II\$27	★ Quarterba CINEMAN Deathbrin	WARE
ACTIVISION	Deathbrin	ger
Battle Hawks 1942 \$30	Darkside	in the desert.
ADDISON-WESLEY	It came from	in the desert.
Includes & Auto Docs Call		
AEGIS		ose
AniMagic \$60	* Kristal	
Audiomaster 2.0 \$60	Federation	1
Draw 2000 \$168	King of Ch ★ Lords of F	nicago
Lights Camera Action. \$48 Modeler 3D \$60 Sonix \$48	* Lords of F	Rising Sun
Modeler 3D \$60	Rocket Ra	nger
Sonix \$48	S.D.L.	go
Video Titler \$50	Sinhad	
AMIGA	3 Stronges	
★ 1.3 Enhancer \$20	Detender o	f the Crown
ANTIC	TV Sport	s Football
Design Disks \$21	DATA FAS	T UULUUII

FACC II	Hybris ★ Sword of Sodan	. \$24
Cygnus Ed	* Sword of Sodan	. \$30
AVAMTE GARDE	VIP	530
Benchmark Module 2 \$120	Zoom	. \$18
BAUDVILLE	Zoom DR. T MUSIC SOFTV	VARE
Award Maker Plus \$30	★ KCS Level II	\$210
Sports Library \$18	Copyist Pro. 2 ★ K.C.S	\$168
BETHESDA	★ K.C.S	\$150
★ Wayne Gretzky Hockey \$30	Midi Recording Studio .	. \$42
BRITANNICA	EASEWARE	
BRITANNICA Jigsaw \$30	Home Builders Cad	
Designasaurus \$30	Home Builders Ch	\$49
BRODERBUND	ELAN DESIGN	
Archipelagos \$24	Invision Req. Live	\$135
Umnipiay Basketbail 30	Performer	. 536
Carmen SanDiego World \$27 ★ Sim City \$27	ELECTRONIC ARTS	
★ Sim City\$27	Populos Data Disk	. \$20
Fantavision \$36 Star Wars \$24 BROWN WAGH	★ Demons Winter	. \$26
Star Wars \$24	★ Populous	
BROWN WAGH	MI BPA Stats	\$14
Easyledger	Lancelot	. \$20
★ Pen Pal\$90	Time and Magic	. 526
BUENA VISTA	AAARGH	. \$23
BUENA VISTA Roger Rabbit \$27	Alternate Rity(city)	\$26
BYTE BY BYTE	Awesome Arcade Pk	\$32
Sculpt Animate 4D 390	Bard's Tale	. \$32
Sculpt/Animate 4D Jr \$90	ChessMaster 2000	\$29
CENTAUR SOFTWARE	★ Commissioners Disk	314
World Atlas	Deluxe Music	. 302
B.A.D \$30	★ Deluxe Paint III Deluxe Photo Lab	. 592
CENTRAL COAST	Deluxe Productions	
MAC to DOS Special	Deluxe Video 1 2	
★ DOS 2 DOS \$33 ★ Quarterback \$42	Double Dragon	\$26
CINEMAWADE	★ Earl Weaver	\$320
Deathbringer \$24	FA/18 Intercepter	\$32
Darkside \$24	Ferrari Formula 1	\$32
It came from the desert. \$30	Marble Madness	532
Speedhall \$24	Master Ninja	520
Speedball \$24 Total Eclipse \$24	★ Mavis Beacon	\$32
★ Kristal	Wizard Wars	\$26
Federation \$30	Zany Golf	\$26
King of Chicago \$15	EMERALD INTELLIGE	NCE
* Lords of Rising Sun \$30	Magellan 1.1 W/Intf	\$15 1
Rocket Ranger \$30 S.D.I. \$15	EPYX	
S.D.I\$15	Revenge of Defender	. \$21
Sinbad \$15	Purple Saturn Day	\$24
3 Stooges \$30	Project Neptune	. \$24
Defender of the Crown \$30	California Games	. \$30
T.V. Sports Football \$30	Games Winter Edition Impossible Mission 2	. \$30
DATA EAST	Impossible Mission 2.	\$15
Bad Dudes	Technocop	\$30
Bad Dudes \$27 Rambo III \$21	Technocop	\$15
Batman \$27 Robocop \$30	FIRST BYTE	
Robocop\$30	* First Letters & Words	. \$26
DIGITEK	First Shapes	. \$26
Extra Courses \$12	Kid Talk	. \$32
★ Hole 1 Mini Golf \$24 Vampires Empire \$27	Math Talk	532
vampires Empire \$27	Math Talk Fractions.	. \$26
Hollywood Poker \$Call	Smoothtalker	\$26

	PRICED TO MOVE	
	Speller Bee\$26 FREE SPIRIT Planet of Lust\$24	-
į.	FRÉE SPIRIT	
ľ	Planet of Lust \$24	
	Planet of Lust \$24 Securities Analyst \$48 Sex Vixons from Space \$24	
	Sex Vixons from Space \$24	
ï	FTL	
	Koas Strikes Back Call	
	★ Dungeon Master \$24	
	EIII I ED COMDUTED	
1	★ Project D \$30	
	COLD DIEK	
	★ Project D \$30 GOLD DISK Move Clips. \$21 Come Setter Data Disks \$21 For Page 1.2 \$210 Structured Clip Art \$5a1 Transcript \$42 Pro Page Templates \$36 Pro Draw Clip Art \$36 Desk Top Budget \$42 Design 30 \$60 ★ Comic Setter \$60 ★ Movie Setter \$60 HARDWIRED Denaris \$24	
8	Comis Cottos Data Diales 921	
	Confic Setter Data Disks \$21	
	P13 Page 1.2 \$210	
į.	Structured Clip Art \$Call	
ı	Transcript	
	Pro Page Templates \$36	
į.	Pro Draw Clip Art \$36	
į.	Desk Top Budget \$42	
	Design 3D \$60	
j.	★ Comic Setter \$60	
	★ Movie Setter \$60	
	Prof Draw \$120	
	HARDWIRED	
î	Denaris \$24	
	links \$18	
Ŷ.	IMADI LICE	
	Turbo Cibras	
	Turbo Silver \$120	
	IMPLUSE Turbo Silver \$120 INCOGNITO Optics Special Kingdoms of Englan \$27	
	Optics Special	
	Kingdoms of Englan \$27	
	Journey \$30	
	Shogun \$36	
	Zork Zero	
	Zork Zero \$36 Battletech \$30 INNOVISION	
	INNOVISION	
	Broadcast Titler \$180	
	Broadcast Titler \$180 Video Effects 3D \$120	
	INTERPLAY ★ Battle Chess \$30 Neuromancer \$24 JDK IMAGES ★ Pro Video Gold \$180	
	★ Battle Chess \$30	
	Neuromancer \$24	
Ĭ.	IDK IMAGES	
	+ Pro Video Gold \$180	
	Font Libraries \$78	
	KARA	
	Cubbanda 640	
	Subheads \$42 ★ Headlines 2 \$42 Kara Fonts \$48	
	* Headlines 2 342	
	Kara Fonts \$48	
	LATTICE	
	★ Lattice 5.0 New Price	
	MANX	
	Aztec C Developers \$195	
	Aztec C Pro \$130	
	Library Sources \$180	
	Source Level Debugger \$75	
	Aztec C Developers \$195 Aztec C Pro \$130 Library Sources \$180 Source Level Debugger \$75 MELBOURNE HOUSE	
	★ War in Middle Earth \$30 Magic Johnson B-ball \$30	
	Manic Johnson B-hall \$30	
	MICRO DEAL	
	Amas Schoolal	

any More! Call	Megaboard 2000 Pro Ram 2000	(2mg) 449 •Live 5 499 •Syque
Speller Bee \$26	Dr. Plummet \$21	Dynamic Studio \$120 Sound Oasis \$60
REE SPIRIT	Dr. Plummet 521	Sound Uasis
Planet of Lust \$24 Securities Analyst \$48	Disply leads Academy 624	UMNITREND
Securities Analyst	Turbo \$18 Black Jack Academy \$24 Craps Academy \$24	Universe III \$30 Breach II \$30
Sex Vixons from Space \$24	Data Dicke \$12	Scenerio Disks
Koas Strikes Back Call	Data Disks	Paledin \$24
A Dungeon Master 524	Enery Tale \$20	Scanario Dieke \$15
Dungeon Master \$24	Photo Vid Cal Animator \$90	ODIGIN SYSTEMS
★ Project D \$30	Photo Vid Cel Animator \$90 Music X \$180	
SOI D DISK	★ Photon Paint II \$90	Times of Lore \$24
Movie Clips \$21		Illtima IV \$36
Comic Setter Data Disks \$21 Pro Page 1.2 \$210 Structured Clip Art. \$Call Transcript \$42 Pro Page Templates \$36	→ Vour Family Tree \$30	Times of Lore \$24 Ultima IV \$36 OTHER GUYS
Pri Page 12 \$210	MICROPROSE(Microplay) Savage \$24 KVanEron ProSoccer \$21 ★ Gunship \$36	Synthia Professional 237
Structured Clin Art SCall	Savage \$24	OVVI
Transcrint \$42	K Van Fron ProSpeccer \$21	Nimbus 2.0 \$96
Pro Page Templates \$36	+ Gunshin \$36	A-talk 3 \$60 Maxiplan 500 \$90 Maxiplan Plus \$120
Pro Page Templates		Maxinlan 500 \$90
Desk Top Budget \$42	MIMETICS 3 Demon \$68 Pro Midi Studio 1.4 \$125	Maxiplan Plus \$120
Design 3D \$60	3 Demon \$68	
Comic Setter \$60	Pro Midi Studio 1.4 \$125	Dr. Dooms Revenue \$27
Movie Setter \$60	Midi Interface \$48	PRECISION SOFTWARE
Prof Draw \$120	Midi Interface \$48 Sound Sampler \$80	Dr. Dooms Revenge \$27 PRECISION SOFTWARE SuperBase Personal \$48
HARDWIRED	MINDSCAPE	SuperBase Personal II \$90 SuperBase Pro. 3.0 \$210
Denaris \$24	MINDSCAPE Gauntlet II\$30	SuperBase Pro. 3.0 \$210
Jinks \$18	Thunderblade \$30	Super Plan \$90
Jinks \$18 MPLUSE Turbo Silver \$120	Action Fighter \$24	Pro Sound Designer \$96
Turbo Silver \$120	Indiana Jones \$24	
Optics Special Kingdoms of Englan \$27	Action Fighter \$24 Indiana Jones \$24 Balance/Power 1990 \$30 Captain Blood \$30	Dunlap Utilities \$48 Baud Bandit \$30
Optics Special	Captain Blood \$30	Baud Bandit \$30
Kingdoms of Englan \$27		CLI-mate \$24 Disk Master \$30
	Hostage 27 Indoor Sports \$30 Outrun \$30 Shadowgate \$30	Disk Master \$30
Journey \$30 Shogun \$36 Zork Zero \$36 Battletech \$30 NNOVISION	Indoor Sports \$30	IntroCad \$48
Shegun	Outrun\$30	Mathamation\$48
Zork Zero	Shadowgate\$30	Pixmate\$42
Battletech \$30	Space Harrier \$30	PSYGNOSIS ★ Blood Money \$24
NNOVISION	Space Harrier S30	★ Blood Money \$24
Broadcast Titler \$180 Video Effects 3D \$120	Uninvited\$30	Baal \$18
Video Effects 3D \$120	Alien Syndrome\$24	Ballistix \$21
	RoadRaider \$30	Ballistix \$21 Barbarian \$24 Captain Fizz \$18
* Battle Chess \$30	Deja Vu II \$30	Captain Fizz
Neuromancer \$24	MINDWARE	Chrono-Quest \$30
DK IMAGES	AUTIL-ATTIC AUVETILUTE 324	Menace
★ Pro Video Gold \$180	Pg Flipper Plus F/X \$96	Ubliterator\$24
Font Libraries \$78	MSI	Obliterator \$24 Terror Pods \$24 READY SOFT
(ARA	★ Raw Copy	A-Max\$120
Subheads \$42 Headlines 2 \$42	M.S.S. Online! Platinum \$60	A-Max
Headlines 2	Unine: Platinum 560	Dragon's Lair \$36
Kara Fonts	Excellence \$150	Deluxe Help from \$21
Lattice 5.0 New Price	Scribble Platinum Ed \$90 Works Platinum Ed \$177	DIGUT A NEW EDG CDOLLD
WANX	NUKS FIAURUR EU 3177	* Director\$42
Aztec C Developers \$195	NEW HORIZONS Flow \$60	Director Tool Kit \$24
Aztec C Pro \$130	Postscript \$20	SIERRA
Library Sources \$180	Postscript \$30 Pro Fonts 1 or 2 \$21 Pro Write 2.5. \$75	Gold Ruch \$24
Library Sources \$180 Source Level Debugger \$75 WELBOURNE HOUSE	Pro Write 2.5 \$75	Police Ouest \$30
MEI BOUDNE HOUSE	NEWTEK	Gold Rush \$24
World Trophy Soccer \$Call	Digi Paint III \$60	Police Quest \$30 Gold Rush \$24 Manhunter \$30
War in Middle Earth \$30	A500 Adapter \$20	Silnheed \$21
Magic Johnson B-ball \$30	Digidraid \$62	Silpheed\$21 Leisure Suit Larry II \$30
MICRO DEAL	Digition 3.0 Upgrade \$12	SOFTLOGIC
Amas \$Special	Digidroid . \$62 Digiview 3.0 Upgrade . \$12 ★ Digiview Gold . \$128	+ Page Stream \$120
Amas \$Special 4 Player Adapt \$Call	NEW WAVE SOFTWARE	★ Page Stream \$120 Page Stream Fonts \$24
International Soccer \$24	Dynamic Drums \$48	rage official Folias ve-
	57	

ec.Co ve 50 yques	lorSpltr
\$120	SOFTWARE VISIONS
\$60	Business Designer \$36
. \$30	Business Designer \$36 Home Designer \$24 ★ MicroFiche Filer Plus \$108
\$30	SDECTRUM HOLORITE
. \$24	Falcon Mission Disks \$15
. \$24	Falcon Mission Disks \$15 Solitaire Royal \$21 ★ Falcon \$30
. \$15	★ Falcon\$30 Tetris\$21
. \$30	SSI
. \$24	★ Heroes of the Lance \$26
. \$36	Kampfgruffe \$38 Questron 2 \$32
. 237	SUBLOGIC
2000	Flight Simulator II \$32
. \$96 . \$60	Jet \$32 Scenery Disks from \$18
\$90	SUNRIZE INDUSTIES
\$120	Image Scan
207	Elctr Color Splitter \$94
S27	TAITO Qix \$21
. \$48	Rampage \$24
\$90	Bubble Bobble \$21
\$210	Bubble Bobble . \$21 ★ Operation Wolf . \$21 Renegade . \$21
\$96	THREE SIXTY INC.
	Dark Castle
. \$48	Thunder Ridge \$24
\$30 \$24	All About America \$36
\$30	All About America \$36 All other titles \$30
. \$48	UNISON WORLD
. \$48 . \$42	Art GIV 1 & 2 COMDO \$24
. 542	Fantasy \$18
. \$24	Fonts & Borders \$21
\$18	Fonts & Borders \$21 **Printmaster Plus \$30 VISIONARY DESIGN
\$21	Visionary Design
\$18	Vortex \$24 Datastorm \$24
. \$30	WILLIAM HAWES
. \$18 . \$24	* Arexx \$30 W-Shell \$30
\$24	
\$120	Word Perfect. \$150
. \$36	Bloodwych \$33
n \$21	Postman Pat \$24
OUP	Targham
\$42	Rick Dangerous \$30 Roll Out \$21
	Black Magic \$21
\$24	Kennedy Approach \$30 Airborn Ranger \$30
\$30	Airborn Ranger \$30
\$30	F-16 \$30
. \$21	Roll Out
\$30	
\$120	IF YOU DON'T
\$24	SEE ITCALL

Orders Only: M-F 10-8 Sat 10-6

\$21

\$24

800-433-7756 In Michigan: 313-427-7713

Customer Service 12-5PM EST(M-F)

Design Disks ... Pioneer Plaque & Phasar 3.0

World Snooker Bridge 5.0

★ Zoetrope AROCK COMPUTER SOFTWARE

Masterpiece Pro Fonts... \$150

313-427-7766 313-427-0267

FAX

★ Indicates Top 50 Sellers No Surcharge for MC/VISA/DISCOVER

Sorry no walk in traffic

All returns must have RA # Merchandise found defective will be repaired or replaced. We do not offer refunds for defective products or for products that do not perform satisfactorily. We make no guarantees for product performance. Any money back guarantee must be handled directly with the manufacturer. Call for shipping & handling info. Prices subject to change without notice. Shipping & Handling are not refundable

Returned products subject to a 20% restocking fee. 12864 FARMINGTON ROAD, LIVONIA, MI 48150 We cannot guarantee compatibility

DEALER INQUIRIES INVITED

BAIWALL

Our Fourth Year In Business! We Know How To Service **Our Customers!**

SOLID PRODUCTS & SOLID SUPPORT

P.O. Box 129 / 58 Noble Street Kutztown, PA 19530

24 HOURS — TOLL FREE 1-800-638-5757 **OUTSIDE USA CALL 1-215-683-5433**

GUARANTEED No Surcharge On Charge Orders Friendly Service **Customer Service Business Hours** M-F, 9-5 EST

SATISFACTION

ACCESSORIES Cables Flicker Master

Gender Changer/Parallel Adapter call Joysticks call Lightpen for Amiga Mice call Modem-Supra 2400 w/o cable Mouse-Boing Optical Okimate Plug N Print-Amiga 500 Surge Protector 6 Outlet SwitchboxA/B Db25F Connectors 40 SwitchboxA/B/C/D Db25F Connectors 69

BOOKS

1001 Things to do with Amiga Amiga for Beginners+ Advanced Amiga BASIC Amig Mach Lang Prog Gde/Compute 17 Amiga3 D Graphics Programming+ Amiga BASIC Inside & Out+ Amiga C-Advanced Programmers Amiga C for Beginners+ Amiga DOS Inside & Out Book+ Amiga DOS Manual Amiga DOS Reference Manual Amiga Disk Drives Inside & Out+ 24 Amiga Graphics Inside & Out 27 Amiga Machine Language Bk+ 17 Amiga Programmer's Guide 15 Amiga ProgrmrsHandbk Vol 1 or 2 20 Amiga System Progrmrs Guide+ Amiga Tips & Tricks+ Amiga for Beginners Beginner's Guide/Amiga 15 Elementary Amiga BASIC 13 Inside Amiga Graphics Inside the Amiga with C MORE Amiga Tips & Tricks+ Programmer's Guide to the Amiga 22 ProgGuide Amiga-C Language Disk ProgGuide Amiga-Modula 2 Disk +Disks for Books

GENERAL BUSINESS

Advantage (The)	54
Citydesk v 2.0	129
Data Retrieve	52
Desktop Budget	52
Easy Ledgers	199
Excellence 512K or 1 meg	159
Family Tree (Your)	35
Fine Print	35
Kindwords	69
MaxiPlan Plus	125
Microfiche Filer	69
Microfiche Filer Plus	119
Microlawyer/Amiga	39
Nimbus Accounting V1.3*	109
Organize - Platinum	69
P.H.A.S.A.R. V3.0	69
Page Stream	129
Page Stream Fonts Each	27
Pen Pal	99
Professional Draw	139
Professional Pages V1.2	249
Prowrite V2.5	75
Scribble - Platinum	99

	1000
Security Analyst	65
TX ED Plus	59
Word Perfect	215
Works - Platinum	159
EDUCATIONAL	in the same
Aesop's Fables	32
All About America	39
Animal Kingdom(Wonders of)	32

29

27

30 32

30

32

24 24

24

36

29

32

32

30

29

	EDUCATIONAL
ĺ	Aesop's Fables
	All About America
	Animal Kingdom(Wonders of)
	Decimal Dungeon
	Dinosaur Discovery Kit
	Discovery Game Disk with Math 1
	Discovery Game Disk with Spell
	First Letters & Words (3-8)
	First Shapes (3-8)
	Fraction Action
	Kid Talk (5-15)
	Kinderama
	Linkword: French
	Linkword: German
	Linkword: Italian
	Linkword: Spanish
	Math Talk (5-13)
	Math Wizard
	Mavis Beacon Typing
	Mypaint
	Puzzle Storybook (The)
	Read & Rhyme
	Read A Rama
	Smooth Talker (13+)

Dragon Force*	35	
Dragon's Lair	39	
Dungeon Master	28	
Dungeon Quest	36	
Earl Weaver Baseball	35	
Earl Weaver Commissioner's Disk	17	
F18 Intercepter	36	
Falcon	35	
Falcon Scenery Disk: Oper Cnt Strke	19	
Fast Break	32	
Ferrari Formula One	36	
Flight Simulator 2	35	
Flight Simulator Scenery Disks Each	19	
Galileo V3.0*	49	
Gauntlet 2	36	
Gone Fish'n (Reel'n Fish'n)	35	
Grand Prix Circuit	32	
Gunship	38	
Halls of Montezuma*	29	
Hole in One Course Disk	17	
Hole in One Miniature Golf	26	
Hollywood Strip Poker	27	
Honda RVF	29	
Hostage	32	
Ice Hockey: Wayne Gretsky	35	
Indiana Jones Last Crusade(Action)*	29	
Indiana Jones Last Crusade(Grphic)*	35	
It Came From the Desert*	35	
Jack Nicklaus Golf	35	

Jet Scenery Disks - Each

Zack Michiackell	9
Zany Golf	3
Zoom	2
CREATIVITY/GRAPHICS	
AniMagic	6
Award Maker Plus	3
Broadcast Titler	19
Bumper Sticker Maker	3
Business Card Maker	3
Caligari Consumer	17
Celebrity Cookbook	2
Comic Setter	6
Deluxe Paint Version 3	10
Deluxe Photo Lab	9
Deluxe Productions	13
Deluxe Video 1.2	8
Digipaint Version 3	6
Digiview 3.0	13
Digiview Gold A500/A2000	13
Director	4
Draw 2000	16
Express Paint V3	8
Fantavision	4

TV Sports Football

Three Stooges

Tom & Jerry

Test Drive 2: The Duel

War in Middle Earth

Zack McCracken

Universal Military Simulator

Where in the World Carmen SanDiego 27

HECK YOUR CURRENT MAILORDER HOUSE! DO THEY? ☐ Have 24 hour toll-free ordering ☐ Have in-house technical suppor ☐ Treat you with respect & value

37

29

36

35

35

35

36

32 19

24 29

26

29

29 33 33

29

16 32

ENTERTAINMENT

Speller Bee (5-12+)

AD&D Heroes of the Lance	2
AD&D Hillstar*	3
AD&D Pool of Radiance	3
Arkanoid	2
Artura*	2
Aunt Arctic Adventure	2
Awesome Arcade Pak	3
Baal	2
Balance of Power 1990	3
Ballistix	2
Bard's II: Destiny Knight	3
Batman	3
Battle Chess	3
Battle Squadron*	2
Battlehawks 1942	3
Battletech	3
Blood Money	2
Breach	2
Bride of the Robot*	2
Bridge 5.0	2
Bubble Ghost	2
Capone	2
Captain Blood	3
Carrier Command	3:
Centerfold Squares	2
Chessmaster 2100*	3
Christmas Classics	1
Clue: Master Detective*	2
Cribbage & Gin King*	3
Dark Side	2
Death Bringer	2
Double Dragon	2

Kingdom of England	
Leaderboard World Class	
Leisure Suit Larry 2*	
Life & Death (surgical game).	
Lord of the Rising Sun	
Lost Dutchman Mine*	
Magic Johnson's Basketball*	
Manhunter Manhunter	
Maniac Mansion*	
Marble Madness	
Mean 18 Golf	
Might & Magic 2*	
Monopoly* Nuclear War*	
Operation Wolf	
Out Run	
Planet of Lust	
Populus	
Powerdrome*	
Pro Soccer	
Project Neptune	
Purple Satum	
Qix	
Rambo III	
Renegade*	
Risk*	
Rocket Ranger	
Roger Rabbit	
Scrabble	
Shanghai	
Sim City	
Solitaire Royale	

Speedball

Sword of Sodan

Forms in Flight 2	89
Home Builder's CAD	135
Intro CAD	52
Lights, Camera, Action	59
Modeler 3-D	69
Movie Setter	69
Performer	42
Photon Paint V2.0	109
Pixmate	45
Printmaster Fonts & Borders	25
Printmaster Plus	33
Project Master	135
Sculpt 3D	69
Sculpt/Animate 4D	389
Sculpt/Animate 4D Junior	105
Turbo Silver	139
Video Effects 3D	139
Video Titler 1.1	99
Zoetrope	89

200 MD/ MOSIC	
Deluxe Music Construction	65
Dr. T Copyist Level 2	219
Dr. T Keyboard C.S. Level 2	279
Dr. T Midi Recording Studio	49
Dr. T Roland D-110 P.E/Editor/L	119
Dr. T Keyboard ContriedSeg V1.6a	165
Dynamic Studio V2.4	135
Future Sound Sampler	139
M Intelligent Music	139
Midi Magic	99
Music V	105

THE PROPERTY OF THE PERSON NAMED IN		
Perfect Sound A1000	65	
Perfect Sound A500	65	
Sonix	52	
Sound Sampler	85	
Sound Sampler Utilities 1 or 2	36	
Soundscape Pro Midi Studio	129	
Synthia	65	

33 22

35

36

Texture

UTILITIES/LANGUAGES

64 Emulator 2 Cable/500	35
A Talk III	65
AC BASIC V1.3	135
Amax - MacIntosh Emulator	135
Ami_Alignment	39
Amiga Workbench 1.3	24
Amiga DOS Toolbox	42
Amikit	34
Arexx V1.06	35
Assempro	64
Aztec C Devlp/Debug/Source Pak	329
Aztec C Developer Compiler	195
Aztec C Professional Compiler	129
Aztec C Source Level Debugger	79
B.A.D. Disk Optimizer	32
BBS PC	99
Benchmark Modula 2	129
Butcher 2.0	25
C.A.P.E. 68K V2.0	59
CLI Mate	27
Can Do	105
Cygnus Ed	69
DOS-2-DOS	39
DSM	49
Disk-2-Disk V2.1	35
Diskmaster	39
Express Copy	34
FACC II	25
GFA BASIC	99
GOMF V3 with Hardware Switch	49
GOMF V3.0	27
Hisoft Professional BASIC	119
Inova Tools	52
Lattice C V 5.0 Developer Pkg	205
MAC-2-DOS Package A	89
MAC-2-DOSw/MAC/AmigaDrvPkgE	3 3 0 9
Online - Platinum	69
Pixelscript V1.1	109
Power Windows 2.5	59
Project D V1.1	35
Quarterback V2.2	49
Raw Copy 1.3	42
Superback	59
Tre BASIC Libraries Each	35
True Basic V1.0	69
Virus Infection Protection	33
Virus Protection Toolbox	42
W Shell	35

Australian Customers can contact Briwall Australia at Telephone (062) 88 0131 Facsimile (062) 88 0337

Prices marked with * were not released at time ad was prepared. Please call for firm price and availability.

PACKAGES	
8-Up 2MB 8-Up 6MB 8-U	435 679 919 11559 5595 5739 7739 988 1035 548 769 7729 1025 769 1025 769 1025 1039 1039 1039 1039 1039 1039 1039 1039

makes and Description of the last of the l	
Synergy 500 Case 158MB Trumpcard 32MB Trumpcard 48MB Trumpcard 64MB	call 499 529 649
Trumpcard 84 MB Trumpcard 158 MB	699
Trumpcard 40MB Ontm Trumpcard 80MB Ontm Trumpcard 100MB Ontm Trumpcard 100MB Ontm Trumpcard 500 32MB Trumpcard 500 48MB (28MS) Trumpcard 500 40MB Ontm Trumpcard 500 80MB Ontm Trumpcard 500 100MB Ontm Trumpcard 500 100MB Ontm	659 910 955 559 579 719 969 1015
Trumpcard SyQuest & 1 cartridge WordSync 32 MB WordSync 48 MB WordSync 64 MB WordSync 64 MB WordSync 60 MB Quantum WordSync 80 MB Quantum WordSync 100 MB Quantum WordSync 100 MB Quantum WordSync 135 MB Imprimist5 ms	959 499 529 679 719 679 929 975 1339
Let us put a	

custom package deal together for you! Please call M-F. 9-5 EDT

Assemble yourself and save money

HARDWARE

Hard Drive Case for 2 5.25" HH	w/
60w power supply & fan	79
Mounting Bracket 3.5" in 5.25" bay	11
Supra Internal Modem (A2000)	139
Supra External Modem	129
USR HST Courier9600 extml modem	659
Supra Internal Modem (A2000) Supra External Modem	139 129

ACCELERATOR BOARDS

A3001-4MB/Q	2799
A3001-4MB/40Q	3149
A3001-4MB/80Q	3599
Hurricane 68030 see page	kages
Impact A2000-030/25	929
Impact A2000-030/25-882/25	1449
Impact A2000-030 RAM/4	1799
Impact A2000-030RAM/8	3299
Infinity Machine	call
Midget Racer w/68020	349
MidgetRcerw/68020/68881-16	519
The second secon	

DRAM	
1 Mbx1 80ns	16
1 Mbx1 100ns	16
256KBx1 150 ns	6
256Kbx4 100ns	20
256Kbx4 120ns	19
256Kbx4 120ns ZIP	19
256Kbx4 100ns ZIP	19

A Pro Draw 12x12 w/cursor Easyl 500 499 329 DRIVES (FLOPPY) Amig-a-tosh Amig-a-tosh Plus Chinon A2000 Internal 3.5" floppy FlexiData FD-10 FlexiData FD-20 Twin Drive UniDrive UniDrive Enhanced

DRAW TABLETS

DRIVES (HARD)

Ī	650 MB Read/Write Optical	
	External Case w/pwr & fan	
	95ms Sony Mechanism	4599
	650 MB Cartridge	329

Quantum & SyQuest Sale

00110 0 OT 10511 0 51110	200 200
20MB Seagate ST-125N 3.5"40	
32MB SeagateST-138N 3.5"40ms	319
32MB SeagateST-138N-1 3.5"2	8ms c
40MB Quantum 3.5" 19/12ms	499
42MB SyQuestRemybl 5.25"25ms	
42MB SyQuest Cartridge 48MB Seagate ST-157N 3.5"	349
48MB SeagateST-157N-1 3.5"28r	ns380
62MB Seagate ST-177N 3.5"	
62MB SeagateST-277N 5.25"40ms	
80MB Quantum 3.5" 19/12ms	749
84MB Seagate ST-1096N 3.5"	call
84MB SeagateST-296N 5.25"28ms	615
90MB 3.5" Fujitsu SCSI	999
100 MB Quantum 3.5" 19/12ms	795
135MB 3.5" Imprimis 15ms	1159
136MB 3.5" Fujitsu	1259
182MB 3.5" Fujitsu	1489
200MB 3.5" Imprimis	call

159
179
239
249
call

GENLOCKS

Amiden	14
Gen/One	59
ProGen	36
Magni 4004	138
MiniGen	cal
ScanLock	89
SuperGen	66
SuperGen 2000s	cal
MEMORY	
8 Up! DIP (OK)	18
Meta4 2-4MB RamCardA2000 OK	17
Meta4 2-4MB Trumpcard500 OK	17

MicroMegs (ASO1 substitute) MiniMegs.1000.512K MiniMegs.1000.1MG MiniMegs.1000.2MG

MiniMegs.500.512K MiniMegs.500.1MG MiniMegs.500.2MG 399 599 MiniMegs 500.2MG MaxiMegs RC4 RamCard A2000 (0K) RC4 w/case.pwr & A500adpt(0K) StarBoard II Upper Deck SupraRam A500 SupraRam A2000 2MB ProRam A2000 2MB (BMB max) Spiritinboard A500 or A1000(0K) Spirit A500 SIN

MIDI/SOUND A.M.A.S. MIDI/SOUND Golden Hawk A2000 Int Midi

135

MONITORS	
Magnavox 515	call
Mitsubishi DiamonScan 14	529
Moniterm Viking 1	call
NEC 3D PRINTERS	649
At	

Abaton Quickstep Postscript	
Compatible Laser	3349
(uses Weitek RISC chip - FAST)	
Canon PJ1080A Color Ink Jet	519
CanonBubbleJet 360dpi/132clmn	799
Everex Laser HP compat	call
Fujitsu LED Postscript	call
HP Paintlet	call
Laser Express	2199
Okimate 20	155
Panasonic 1124	359
Sharp JX-730 13.5"Color Ink Je	t
(180x180 dpi)	call
Star NX-1000R Rainbow Color	259
Xerox 4020 Color Ink Jet	1139



Han-D-Scan 310 100, 200, 300, or 400 DPI Up to 16 grey levels Includes Diamond Paint Program Scan Width 4.13"

Cannon Scanner Prof Scan & Sharp 8.5x11 color	call
SCSI	
Fireball Hard Card 90MB Fireball H.C. 136MB Fireball H.C. 182MB Fireball H.C. 0MB HardFrame 2000 Impact A2000-2/0 Impact A2000-HC/30	1159 1449 1689 219 249 299 call
Impact A2000-HC/40Q	789

Impact A2000-HC/80Q Impact A2000-HC/100Q Impact SQ44-RHD 1159 1495 Impact S044-RHD Advanced Autoboot EPROMS Impact WT-150 Streaming Tape Impact A500-HD/20m Impact A500-HD/20m Impact A500-HD/30 Impact A500-HD/400 Impact A500-HD/400 Impact A500-HD/400 Impact A500-HD/400 Impact A500-2/2 Infinity Machine call 110 849 599 759 949 899 1399 call 70 299 call



Supports removable media Non DMA CLTD reports up to 891K transfers using Imprimis Connect up to 7 computers to one drive

C. Itd reports 891 KR/sec with Imprimis

o ita reporta da i Norace with	mpinina
OverDrive StarBoard II SCSI Module Supra 500/1000 HardDrives Synergy 500	199 99 call 219
Trumpcard 500	159 219
Tiny Tiger II 90MB	1149
Tiny Tiger II 136MB Tiny Tiger II 182MB	1429 1679
Tiny Tiger II Host Adapter	125

WORD SYNC 179

New from Supra - Best Brackets 16 bit interface, non-DMA Disk Perf 2 test, 508K read, 289K write with Quantum 80 s.

VIDEO	
Color Splitter	89
Flicker Fixer	479
FlickOff	389
Frame Buffer Frame Capture(OK)	599
FrameGrabber	529
Live! 1000	249
Livel 500	285
Livel 2000	319
Panasonic WV1410 Camera	189
Rainbow 16mm Lens w/variable iris	49

Palette Printer \$25 with purchase of any color printer

DYNAMIC DUO!



DIGIPAINT V3 THE ULTIMATE PAINT PROGRAM! \$69



DIGIVIEW GOLD SIMPLY THE BEST! \$139

Combine the best video digitizer and the hottest HAM paint program with a Panasonic WV1410 camera. variable lens and a CS-1 copy stand for the most complete graphics workstation ever!

COMPLETE PACKAGE LIST \$779

OUR PRICE \$479

Offer expires 12/31/89



BAIWALL

SOLID PRODUCTS & SOLID SUPPORT PO Box 129/58 Noble Street Kutztown, PA 19530

Toll-Free 24 Hour Order Line 1-800-638-5757

24-Hour Order Line Outside USA

24-Hour FAX Line - 1-215-683-8567 Customer Service - 1-215-683-5433

Technical Support - 1-215-683-5699

PLEASE COME VISIT US! Monday - Friday 9AM-6PM EST Saturday 9AM - 12 Noon EST

VISA

FREE NEWSLETTER SUBSCRIPTION WITH EVERY ORDER

159

1-215-683-5433

!We Have Gift Certificates!



IMPACT A2000 SQ44 44 MB Removable Cartridge Winchester Disk Drive Autoboot from a FFS Partition Automatic "Diskchange" Command 25 ms ave. access time 1:1 Interleave Capability SCSI Interface

Impact A2000-030/16 - Impact A2000-030/25 4 MB/8 MB Daughterboard Sockets for Boot EPROMS Built-in hard disk controller Socket for 68881/82 FPU Asynchronous Design

SHIPPING POLICY: All ORDERS received before 3PM EST will normally be shipped within 2 business days. Out of stock items will be shipped by the same shipping method as original order, normally within 3 or 4 business days. All UPS shipments are sent SIGNATURE REQUIREDING DRIVER RELEASE. ADD the following shipping charges to your TOTAL software order:

UPS: Ground \$4.00 (cont USA ONLY), Air/Rush \$7.00 (includes Puerto Rico/Hawaii), Overnight \$12.00 + \$2.50 per item (must be received by 12.NOON).

PRIORITY MAIL: USA \$4.00 (includes APO/FPO). Canada/Mexico \$6.00. Other Foreign \$4.00 Handling +

ORDERING INSTRUCTIONS: For your convenience, you can place a phone order 24 HOURS/ 7 DAYS A WEEK on our TOLL—FREE LINE 1.800 638 5757. Outside the USA, please use (215) 683 5433, Price, availability, and compatibility checks are also welcome on our order line. Monday thru Friday, 9.30AM-4.30PM EST AFTER HOURS, Orders Only, Please! When placing an order, please specify your computer model, home & daytime phone number, shipping address, charge card number, expiration date & name of bank.

ACCEPTED PAYMENT METHODS: We welcome payment by PREPAID (by Personal Check or Money Order), MASTERCARD. VISA. SCHOOL, PURCHASE ORDERS, COD orders are welcome for established Briwall Customers Only (§4 00 additional). All payments must be in USA DOLLARS. There is no Surcharge for Credit Cards and your card is NOT charged until we ship!

RETURN POLICY (for software and accessories ONLY): We have a liberal return policy to better service your needs. If within 15 days from the time you receive an item, you are not satisfied with it for any reason, you may return it to us for either a refund, exchange or open credit. REFUNDS ARE SUBJECT TO A 10% RESTOCKING FEE PER ITEM RETURNED (\$5.00 MINIMUM PER ITEM). EXCHANGES/OPEN CREDITS will gladly be issued for the full purchase price of the item. DEFECTIVE Items, Hardware items and Special Order items will be replaced with the same item only.

TECHNICAL SUPPORT (M-F - 9:30AM-5PM EST) We do our very best to help you with your product selections, before you order and after you receive your product. General questions, price, compatibility with your computer, etc. will be handled by our order staff at the time you place your order. BUT, if you have specific, detailed questions about a product, printer, compatibility questions, etc., you will get the most help from our TECHNICAL SUPPORT LINE 215 683-5699.

HELP KEY

The techie talks turkey to untangle your troubles.

SCIENTIFIC GRAPHING

Q: I have been looking for a scientifically oriented graphing program for quite some time, but I have failed so far. What I need is data graphs, best fit curves, linear regression, and so on. Have you heard of anything like that for the Amiga?

Benis Babusis Downey, CA

A: While I can't think of anything specific, a couple of "maybes" come to mind. One that I know of is Descartes! (Mindware International, 110 Dunlop St. W., Barrie, Ontario L4M 5R3, Canada). This is a scientific, programmable graphing package with a fair number of math functions, including some calculus features, such as derivatives. You can create graphs of your data sets and save them as IFF images that can be used in paint or desktop-publishing programs.

Another possibility is I.C.E. (King Publishing, 921-32nd St., Sioux City, IA 51104), which creates custom programmable calculators with a built-in BASIC-like language that supports some data graphing. Besides general math and trig features, the programming language has commands like CORL (returns correlation coefficient), MEAN and STANDARD DEVIATION. Using I.C.E., you

By Louis R. Wallace

could create dedicated calculators for your needs.

MISPLACED FORMAT

Q: I have a problem using the FORMAT command from the CLI. Under 1.2, you could type:

FORMAT DRIVE DF1: NAME DISKNAME

and it would format a disk in drive 1. Whenever I try to use FORMAT under 1.3, I get an "unknown command" error message. The weird part is that it works fine from the Workbench using the Initialize option. Was the CLI FORMAT command removed in 1.3?

S. Whitehall Akron, OH

A: You can still use FORMAT from the CLI in 1.3, but the command was moved from the C: directory to the System directory. Just type:

SYS:SYSTEM/FORMAT DRIVE DF1: NAME DISKNAME

and the CLI will get the FOR-MAT command from the System drawer on whatever drive you are using as your Workbench.

QUICK CAN BE SLOW

Q: Has MicroSoft ever released an Amiga version of their QuickC? I saw it listed in the AmigaWorld Software Buyer's Guide (December '88), but so far I haven't been able to buy it.

J. Elam Dunwoody, GA

A: To date, the only Amiga product that MicroSoft has released is Amiga Basic. I have heard of possible ports of some MicroSoft products to the Amiga, but so far these remain merely rumors.

BETTER BRIDGES

Q: I have an A2000HD with an A2088 Bridgeboard. Can I boot MS-DOS directly from my hard disk? Will Commodore upgrade the PCWindows software to handle EGA graphics?

P. Heinrich Eugene, OR

A: When booting with the Bridgeboard you can bypass your MS-DOS floppy disk. The trick is to use the /s option with the FORMAT command when you format your MS-DOS hard disk. This will install the proper MS-DOS files on the disk, making the hard disk bootable. After formatting, copy all your MS-DOS files to the hard disk so they will be available on bootup.

As for EGA compatibility, I haven't heard of any plans to upgrade the Bridgeboard to support EGA display modes via the Amiga, and I doubt we will see such an upgrade any time soon. For now, you can

install an EGA graphics card in one of the A2000's PC slots and connect an EGA compatible monitor to the card. Such a two-monitor system has the advantage of the Bridgeboard display updating at full speed.

POPULATION GROWTH

Q: I want to upgrade my A500's memory and have seen ads for 1.5 megabyte boards with 0K. Would I have to buy the RAM for such a board, or would the board already have the 1.5 megabytes so I wouldn't have to add any RAM?

V. Nhan Lam Arncliffe, Australia

A: The 0K means the board has no RAM on it; you will have to buy the chips yourself and plug them into the board. Boards are sold empty so that the customer can shop around for the best RAM price.

HIT A GUSHER

Q: In reference to "Gone Dry" (Help Key, September '89, p. 92), you can order ink cartridges for the Canon PJ1080A from Canon USA. Call the main office at 516/488-6700 and ask where the nearest Canon office is in your area.

J. Tice Oxford, AL

A: Thanks Jerry! ■

InfoMarket

FATALE FEMME

The digital puzzle for adults! GOOD CLEAN ADDICTIVE FUN by



\$34.95 ppd. cont. US NY & NJ

All NEW and Featuring

- 10 exquisite photos digitized in full color.

- 5 difficulty levels (25, 40, 64, 80 and 100 tiles).
- Digitized feminine audible assistance.
- Large, uncluttered full screen images.
- Load/Save game options, Hints, Undo, Status.
- Choose from our superb library of digitized data disks or use your own Low, Med., Interl. or Hi-res images.
- Demonstration disk & discount coupon available for only \$2.00.

(Include a signed statement that you're 18+ years old).

GRAPHIC EXPRESSIONS P.O.Box 110028 Nutley NJ 07110 USA (201)661-0408

Circle 270 on Reader Service card.

International Championship Wrestling

Are you ready for the best in the world?? Featuring:

- Many moves including: Figure 4 Leg Lock, Airplane Spin, run the ropes, flying elbow, shoulder tackle, Atomic Drop, Body Slam, Power Slam, Kicks, Punches, and many, many more. .
- Climb the ring ropes to really punish your opponent!
- Each wrestler has his own unique "death hold" and posing routine (just like on TV).
- Over 300 frames of animation per wrestler, digitized sound.
- 1 or 2 players, and computer demo modes. 4 skill levels.
- \$50.00 prize for the 1st ten players to defeat the Champ at Contest Level!

Just \$25.95 + \$2.50 shipping/handling (CA res. add sales tax) Digital Wizards, Inc.

9307 Carlton Hills Blvd. Santee, CA 92071 (619) 449-5218

Circle 290 on Reader Service card.

AMIGA P.D. APPLICATIONS

Some Great Public Domain Applications Programs for the Amiga. Disks include:

CC-907 Great Fonts!

Over 40 fonts available for the Amiga. From giant to tiny fonts. Also included are many font utilities.

tort usines.

CC-909 Home Applications
Includes Deluxe Grocery List Construction Set,
Address Book, DB-Wz: Database Wzard, Supermot: Loan Amortization Calculator, more.

CC-910 Science & Education Math Plot: 2D & 3D math formula plotting programs, Multi Dim: geometry demonstration tool, HP-IDC: HP calculator emulator, Air Foli: Aerodynamics CAD program, Weatherman predicts the weather, and many more.

CC-914 Home & Business

Bankin: Checking account database manager, House Inv.: Home inventory database, Finan-ca: Financial calculation program, Your Money: Budgeting system for home or small business, Scalc: Spreadsheet program, more.

business, Scarc: spreadsneet program, more.

CC-930 Business Collection 1
HyperBase: Sophisticated database, Library:
Freeform text file database, MemoPard: Date-book, appointment calendar and reminder book all in one, Project Manager: Elaborate interactive mgmt. tool and many more.

CC-931 Plans CAD Fast, versatile drafting package. This 2D CAD program is loaded with features and is of commercial crafts.

All Disks ONLY \$5.00 Each!

Send check or money order to: Chiron Conceptions, Inc. PO Box 19474 Jacksonville, FL 32245

Foreign orders add \$2.00 per disk for Air Mail delivery. Free catalog of over 160 P.D. disks available upon request!

MOUSE MASTER AND I Don't let those finger aerobics get you down! There's an easier way to change between your mouse and joystick, instantly with just a touch of a button. It's the handiest switchbox around.

MOUSE MASTER

(602) 322-6100

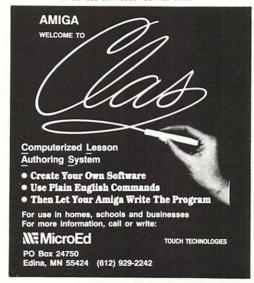
\$39.95

plus shipping & handling. MC, Visa, COD's welcome



1135 N. Jones Blvd. . Tucson, AZ 85716

Circle 293 on Reader Service card.



These games are so fun, we hate to label them educational (but they are).

Computational Software Solutions

Introduces:

Tracker's Quest

Fourteen games to enhance and test how well you remem-

Tumbling Geometries

How is your sense of balance? Gravity, friction, geometry, and ber, PLUS rudimentary music. strategy make this game a winner.

Give your children something to prepare them for life, not intergalactic warfare.



Prices: \$34.95 each or \$49.95 for both.



Call 1-800-826-1799, (503) 886-9075 outside US, for sales and

Circle 286 on Reader Service card

INTEGRATE A VCR WITH YOUR AMIGA

- NOW FOR \$180 YOU CAN CONTROL YOUR VCR TO DISPLAY LIVE VIDEO ON YOUR COMPUTER SCREEN FOR APPLICATIONS SUCH AS:

 1. A DATABASE THAT CAN DISPLAY BOTH COMPUTER DATA AND VIDEO CUPS AS COULD BE USED BY REAL ESTATE AGENTS, OR FOR COLLECTIONS OF STAMPS OR PRODUCT LINES HANDLED, ETC.
- INTERACTIVE TRAINING PROGRAMS (SIMILAR TO INTERACTIVE VID-EODISC) WHERE SPEED OF ACCESS IS NOT TOO IMPORTANT OR WHEN YOU WISH TO TEST YOUR WORK BEFORE COMMITTING IT TO VIDEODISC
- SIMPLE VIDEO EDITING USING TWO VCR'S
 GAMES USING REALISTIC TV-TYPE VIDEO INSTEAD OF GRAPHIC

EDU-VID'S NEW IR REMOTE CONTROLLER PLUGS INTO THE PARALLEL PORT OF THE AMIGA AND WILL LEARN THE IR CONTROL CODES FOR ANY VCR, TV, CD, ETC. YOUR AMIGA CAN THEN DO ANYTHING YOU COULD DO WITH YOUR REMOTE.

SEND A LARGE, STAMPED, SELF-ADDRESSED ENVELOPE FOR FULL DETAILS OF WHAT IT CAN AND CANNOT DO TO:

Edu-Vid Research

PO BOX 149

PEMBINA, ND 58271

CANADA MSP 3C3



Circle 277 on Reader Service card.

ICONLAB 1.3 by HERMES

- All Icon/Brush Options (I→B, B→I, etc.)
- All Icon Data Options (Split, Join, etc.)
- Shows/Draws/Paints Icons in 2-16 colors.
- Shows and Loads all Disk Fonts.
- · Reduces IFF Pictures to Icon Sizes.
- Reduces IFF Pictures to WorkBench Ones.
- Cuts/Shows/Saves IFF Pictures/Brushes.
- More! Amiga 500/1000/2000.

Send \$35.00 (US) to:

A.G. KARTSATOS

8524 Caladesi Drive Temple Terrace, FL 33637-7310, USA

Circle 273 on Reader Service card.

InfoMarket

35mm COLOR SLIDES

from your IFF or HAM files

 Brilliant Color No Curvature Distortion as low as \$1/slide

Call or Write for order form, price list & sample MMOND

PHOTOGRAPHIC SERVICES

11280 Washington Place Culver City, Ca. 90230 (213) 390-3010

MASTERPIECE PROFESSIONAL FONT COLLECTION® BRUSHES 20 DISK SET

The Largest Collection Of Fonts And Clip Art Available In A Single Package For The AMIGA

100 DIFFERENT FONT STYLES

This doesn't mean 10 sizes of 11 fonts. It means 110 DIFFERENT Fonts.

LARGES SIZES · HI-RES Specially Designed For Video Work. 95% of the nts are over 100 pt. tall. Easily resized smaller.

PATTERN CLIP ART 141 hi-res DPaint II pages. There are thousands of objects and examples. 2 Disks Full Of Color Brushes COLORFONTS

4 Disks Full Of Colorfonts 100 PAGE MANUAL

Full Size Font Printouts
20 DISK SET - ONLY \$199.00
VISA / MC • COD • Company Check

Contact your local AMIGA dealer or order direct from AROCK Computer Software PO Box 731, Springfield, MO 65801



Elkon Enterprises

The Ultimate Hint Kit

Need help in an adventure game? Reach for the Ultimate Hint Kit! Including such features as; Walk-Thrus, Hi-Res Maps, and Character Editors. This three disk set has over 25 Walk-Thrus including help for Dungeon Master, FaeryTale, and most of the Sierra games. Also included is help for The Pawn, Bard's Tale Series. How about over 40 Hi-res Maps for Dungeon Master, FaeryTale, Bard's Tale and Bard's Tale II. The Ultimate Hint Kit also offers an added bonus of three different Character editors for Bard's Tale, Faerytale and Phantasie. This three disk set will answer most of your adventure questions! All of this for \$19.95 plus \$2.00 for shipping.

\$19.95

Elkon Enterprises 4654 Mistletoe Wichita Falls Tx 76310

\$19.95

M: MicroEd

Educational Software K thru ADULT

ALL CURRICULAR AREAS • INCLUDES RELIGIOUS PROGRAMS SEND FOR A LIST OF OUR SOFTWARE

> MicroEd, Incorporated P.O. Box 24750 Edina, MN 55424 612-929-2242

Hypertext for the Amiga

\$80 Version New

COD\$5 Features

30 day guarantee

Thinker HyperText/HyperMedia word processor for the creation and organization of information.

"..stunning capabilities..simple to operate" "power and grace..."
...superbly crafted.." - Gary Gehman, Amiga Sentry, June 1989 The latest technology combines outline processing and word processing with a multimedia Hyperiext engine. Link words, pictures, animations and spreadshoets. Thinker combines database concepts with word processing for maximum creativity.

Poor Person Software, Dept 10, 3721 Starr King Circle Palo Alto, CA 94306 (415) 493-7234

Software allows you to control virtually ANY VIDEO, MUSIC, **MIDI-Mice** or PAINT program from your MIDI Instrument

- Transform MIDI events into mouse and keyboard events
- Fully programmable with instant recall and edit
- Multitask on any model Amiga®, MIDI adaptor required

Please send your check or money order of \$85.00 to (California residents please add 6% sales tax) Dealer inquiries invited

VIDI-Mice (Visual Interface) also available for \$85.00

Tensor Productions 280 Mathilda Drive No. 9 Goleta, California 93117 Tel: 805-685-6245 Fax: 805-685-2994

Public Domain Software Resource

The New Amiga Public Domain Service that lets you Choose only the programs you want! Hundreds of programs available. Send now for our free catalog!

PDSResource

PO Box 7175, Loma Linda, CA 92354



Only \$6.00 per Disk.

AUTHORIZED AMIGA SALES & SERVICE

A500 REPAIR \$65.∞

We honor warranty work. We reserve the right to refuse work on exces-sively damaged units.

A501 RAM Card CALL FOR OTHERS

WE CARRY PARTS, CHIPS, POWER SUPPLIES & ALL OTHER ACCESSORIES FOR YOUR COMMODORE & AMIGA

89 AMPEX SYSTEMS, INC. (404) 263-9190 5344 Jimmy Carter Blvd., Norcross, GA 30093 (800) 962-4489

PELICAN WARE

PO Box 680, South Street, Plattekill, NY 12568

1-800-637-4286

RAM IT!!!

Microbotics Starboard II for the Amiga 500 and Amiga 1000 512K \$329.00 1 Meg \$409.00 2 Meg \$639.00 Call for prices on 8-Up Ram card for Amiga 2000.

\$97,500 A YEAR HIDDEN IN YOUR **COMPUTER?**"

Find out! (9 years success.) FREE report. Write: Ed Simpson Dept. 771AW, Battle Ground, WA 98604-0771



ADULT PD!! All Pictures High Quality Ham/IFF

Each Disk has Slide Show or Individual "Point & Click" Viewer Now Available Disk #'s 1 * 2 * 3 * 4 * 5 * 6 * 7 * 8 * 9 * 10

PER DISK plus \$2.60 S&H/Order 5 disks or MORE add 50 cents per disk

SEND TO: Disqué P.O. Box 1161

Special: Order ALL 10 and get Special 11th disk FREEI Safety Harbor, FL 34695

PLEASE Include a Statement that you are 18 years of age or older

NEW! Colorful IFF-HAM Sex Education Pictures
Two Disk Set

"ADULT SEXUAL WITH PLAYER

The DigitalPub/257 1033 Peachtree Street N.E. Atlanta, GA 30309 You must sign a statement that you are 18 or older! Make the most of your advertising investment! Reserve your space in the AmigaWorld InfoMarket today! Call Heather Paquette on the East Coast at 603-924-9471 or 1-800-441-4403. On the West Coast call Shelley Harmon at 415-328-3470.

100% Compatible statistics for EARL WEAVER BASEBALL

YES, someone has finally done their homework and researched the past and present years in Baseball. Using statistics from many sources makes this a very thorough and complete, compiled statistic source. We also feature updated ballfields, a yearly schedule and a play calendar so you can play the games as they really were. We now have in stock 1919, 1949, 1952, 1959, 1961, 1969, 1975, 1976, 1978, 1985, 1987, 1988 and soon to be released 1989. For more info. or to place an order, write:

GMCP SOFTWARE

Suite 52-217 4095 US Route 1

or call (201) 938-6399 Disks are \$19.95 each Add \$2.50 shipping Visa/MC add 4%

Monmouth Junc., NJ 08852 NJ residents add 6% tax EARL WEAVER BASEBALL trademark of Electronic Arts

Fred Fish Disks \$2.00!

\$2.00 each for five or more. \$2.50 each for less than five.

We also carry a wide selection of other Public Domain, bulk disks, and hardware.

For a free disk catalog or to place an order call or write to: Amy Today. 640 WillowGlen Rd. Santa Barbara, CA. 93105. 805-687-564

AMIGA JUST RELEASED AMIGA UPGRADE #1....New 1 MEGABYTE "FATTER" Agnus chip (#8372) allows user more "chip" memory in GRAPHICS, MUSIC or VIDEO. This upgrade is an ab ist for present AMIGA owners. Price is \$109.50 AMIGA UPGRADE #2... A501 UPGRADE RAM BOARD FOR THE AMIGA 500 IS IN STOCK. THIS UNIT FITS AMICA DIGINATE 2... ASUI UPGRADE PAIN BOWND FOR THE AMICA SOLD IN THE AMICA SOLD IN THE AMICA SOLD PRICE IS \$139.50 and includes instructions. AMICA UPGRADE (3)... NEW field upgrade to latest revision (4.5) which includes "auto-boot" etc. 1.3 KICK-START ROM (315093-02) is \$27.95. The "GARY" chip if needed for your Amiga 2000 is \$17.95. Included are WE STOCK ALL AMIGA (AND COMMODORE) CHIPS AT SUPER LOW PRICES SEND FOR CATALOG ON EXCLUSIVE PRODUCTS THE GRAPEVINE GROUP, INC. 35 CHARLOTTE DRIVE WESLEY HILLS, NY 10977 FAX (914) 354-4448 Commodore is a registered trademark Dealer pricing available



Associates, Inc.

The DISK Specialists - Distributors

Featuring: C. ITOH BLUE 3.5" DSDD 100% Warranty. MINIMUM PURCHASE-400 DISKS. LABELS ARE EXTRA! \$18 per 400.

.99 per disk

Smaller quantities available at different pricing. Sony & other brands & quantities are available. Prices subject to change without notice. No COD's for this offer. Credit cards add 5%. Call/write for S/H fees, Disk Pricing & AMIGA Product Catalogs. Corporate/Educational/Dealer Inquiries invited. Limited offer: SPECIFY — OFFER #1089.

MCP Associates, Inc., PO Box 6260, Dept. AW, LI.C., NY 11106-1933

Tel: 1-718-956-9000

Exceptional Service & Quality

FAX: 1-718-956-9028

Keward! **Grand Prize!** rame!

You could be \$50 richer and lots more famous. All it takes is an Amiga (we trust you've got one), a bit of talent, and a hankering for the big time. Just send us your best animation. If judged worthy for the AmigaWorld Animation Video, we'll send you \$50, and stick you in our new (it ain't even finished yet!) video. And if we think your animation is the best, why, we'll mail you off a check

You must be the creator, and must have created the work on an Amiga. Send it off to us on standard 880Kbyte floppies, and become a part of the coolest group of Amiga animators ever assembled. We will assume the right to put your animation on our video, but you retain all other rights. Please include on disk an IFF screen specifying names of involved parties as well as products used. Then blast your stuff off to:

AmigaWorld Animation Contest 80 Elm Street Peterborough, NH 03458

AmigaWorld is a publication of IDG Communications, the world's largest publisher of computerrelated information. IDG Communications publishes over 90 computer publications in 33 countries. Fourteen million people read one or more IDG Communications publications each month. IDG Communications publications contribute to the IDG News Service offering the latest on domestic and international computer news. IDG Communications publications include: ARGENTINA'S Computerworld Argentina; ASIA'S Communications World, Computerworld Hong Kong, Computerworld Malaysia, Computerworld Singapore, Computerworld Southeast Asia, PC Review; AUSTRALIA'S Computerworld Australia, Communications World, Australian PC World, Australian Macworld; AUSTRIA'S Computerwelt Oesterreich; BRAZIL'S DataNews, PC Mundo, Micro Mundo; CANADA'S Computer Data; CHILE'S Informatica, Computacion Personal; DENMARK'S Computerworld Danmark, PC World Danmark; FINLAND'S Mikro, Tietoviikko; FRANCE'S Le Monde Informatique, Distributique, InfoPC, Telecoms International; GREECE'S Micro and Computer Age; HUNGARY'S Computerworld SZT, PC Mikrovilage; INDIA'S Dataquest; ISRAEL'S People & Computers Weekly, People & Computers Bi-Weekly; ITALY'S Computerworld Italia; JAPAN'S Computerworld Japan; MEXICO'S Computerworld Mexico; THE NETHERLANDS' Computerworld Netherlands, PC World Benelux; NEW ZEALAND'S Computerworld New Zealand; NORWAY'S Computerworld Norge, PC World Norge; PEOPLE'S REPUBLIC OF CHINA'S China Computerworld, China Computerworld Monthly; SAUDI ARABIA'S Arabian Computer News; SOUTH KO-REA'S Computerworld Korea, PC World Korea; SPAIN'S CIMWORLD, Computerworld Espana, Commodore World, PC World Espana, Comunicaciones World, Informatica Industrial; SWEDEN'S Computer Sweden, Mikrodatorn, Svenska PC World; SWITZERLAND'S Computerworld Schweiz; UNITED KINGDOM'S Computer News, DEC Today, ICL Today, LOTUS, PC Business World: UNITED STATES' AmigaWorld, CD-ROM Review, CIO, Computer Currents, Computerworld, Digital News, Federal Computer Week, FOCUS Publications, inCider, InfoWorld, Macintosh Today, MacWorld, Computer + Software News, (Micro Marketworld/Lebhar-Friedman), Network World, PC World, Portable Computer Review, Publish!, PC Resource, PCGames, RUN, Windows; VENEZUELA'S Computerworld Venezuela; WEST GERMANY'S Computerwoche, Information Management, PC Welt, Run, PC Woche, RUN.

Manuscripts: Contributions in the form of manuscripts with drawings and/or photographs are welcome and will be considered for possible publication. AmigaWorld assumes no responsibility for loss or damage to any material. Please enclose a self-addressed, stamped envelope with each submission. Payment for the use of any unsolicited material will be made upon publication. All contributions and editorial correspondence (typed and double-spaced, please) should be directed to AmigaWorld Editorial, 80 Elm St., Peterborough, NH 03458; telephone: 603-924-9471. Advertising Inquiries should be directed to Advertising Offices, IDG Communications/Peterborough, Inc., 80 Elm St., Peterborough, NH 03458; telephone: 800-441-4403. Subscription problems or address changes: Call 1-800-525-0643 (in CO, 1-303-447-9330) or write to AmigaWorld, Subscription Dept., PO Box 58804, Boulder, CO 80322-8804. Problems with advertisers: Send a description of the problem and your current address to: AmigaWorld, 80 Elm St., Peterborough, NH 03458, ATTN.: Sue Maizel, Customer Service Representative.

List of Advertisers

RS#	273	A.G. Kartsatos, 125	RS #	227	Micro Systems Int'l, 90
	124	Abacus Software, 45		95	Micro-Systems Software, Inc., 17
	175	AbSoft, 92		129	Micro-Systems Software, Inc., 19
	72	AmiEXPO, 77		*	MicroEd, Inc., 125
	*	AmigaWorld,		167	MicroMaster, Inc., 94
		Amiga Companion, 110		198	Medalist Int'l, 41
		Amiga Tool Chest, 97		29	Medalist Int'l, 43
		InfoMarket, 125-127		*	Mindscape, Inc., 51
		Special Issue, 96		*	Montgomery Grant, 113
	82	Anakin Research, Inc., 18		38	New Horizons Software, 25
	68	Blue Ribbon Bakery, 119		102	NewTek, Inc., CIV
	132	Briwall, 122, 123		119	NewTek, Inc., CII
	165	Brown-Wagh Publishing, 61		21	Origin Systems, 2
	73	California Access, 103		284	Pixelations, 104
	116	California Dreams, 4		293	Practical Solutions, Inc., 125
	12	CAPCOM USA, Inc., 57		230	Pre'spect Technics, Inc., 104
	86	CAPCOM USA, Inc., 59		187	Precision Inc., 55
200,	239	Centaur Software, Inc., 12, 13		110	7-Day Software, 93
	143	Central Coast Software, 79		275	Safe Harbor, 90
	294	Chiron Conceptions, Inc., 125		128	Software Discounters, 109
	148	Computability, 117		194	Software Excitement, 91
	41	Computer Mail Order, 64, 65		226	Software Support Int'l, 111
	69	Computer Mart, 107		141	Spectrum Holobyte, 85
	199	Creative Computers, 72, 73		206	Sprite Technology, 95
	286	CSS, Inc., 125		*	Strategic Simulations, Inc., 83
	398	DevWare, Inc., 94		228	SubLogic Corp., 16
	28	Digital Creations, 49		208	Supra Corp., 29
	290	Digital Wizards, Inc., 125		88	Supra Corp., 31
	35	Dr. T's Music Software, 67		56	Taito Software, Inc., 9
	*	Edu-Vid Research, 125		112	Taito Software, Inc., 11
	262	Flexible Data Systems, Inc., 105		32	Tangent 270, 86
	183	Fuller Computer		45	Telmak, Inc., 81
		Systems, Inc., 108		61	The AAmiga Center, 112
	*	GE Information Services, 53		134	The Software Shop, 87
	26	Go Amigo, 114, 115		17	Titus Software Corp., 47
	177	Gold Disk, 1		64	Word Perfect Corp., 27
	270	Graphic Expressions, 125		90	Xetec, Inc., 101
245.	127	Great Valley Products, Inc., 5			
	145	Great Valley Products, Inc., 7	*	This a	advertiser prefers to be
	172	ISM, Inc., 92		conta	cted directly
	47	Imtronics, Inc., 20		This i	index is provided as an
	149	Imtronics, Inc., 21			ional service. The publisher
	142	Innerprise Software, 71			not assume liability for errors
	254	Innerprise Software, 33			nissions.
	106	Intelligent Music, 88			NOTICE TO ADVERTISERS
	54	Interactive Video Systems, 63	AH .	dverticie	g is subject to the approval of the Publisher and
	125	InterComputing, Inc., 89	Amig	aWorld re	eserves the right to refuse advertising without notice.

All advertising is subject to the approval of the Publisher and AmigaWorld reserves the right to refuse advertising without notice. The advertising herein that has been typeset and/or designed by AmigaWorld is the property of AmigaWorld, and not that of the ad-vertiser. The advertiser has purchased the right of reproduction in AmigaWorld only, and does not have the right to reproduce the ad in any other publication, without the expressed written consent of AmigaWorld. Advertisers and/or their agencies assume the responsibility for the con-dition of the contents of the advertising printed herein and agree to indemnify the Publisher of AmigaWorld for any claims and/or expenses incurred therefrom.

AmigaWorld is not responsible for changes to artwork after the given advertising deadlines, nor assumes responsibility for mistakes, misprints, or typographical errors, and will not issue credits of any kind for such

or typographical errors, and will not issue credits of any kind for such errors.

AmigaWorld advises advertisers that statements regarding shipping and handling charges, warranties and/or money-back guarantees should be included within all forms of advertising in Amigaworld.

The opinions expressed in the articles and advertising appearing herein are those of the authors and/or advertisers and are not necessarily those of AmigaWorld.



277

117

122

181

104

44

22

Joe's First Company, 125

Lightspeed Distribution, 98, 99

Micro Computer Services, 121

Micro R&D/Phoenix Electronics, 106

Konami, Inc., 38

M.A.S.T., 69

Konyo Int'l, Inc., CIII

Melbourne House, 37

If you have any questions or concerns about advertisers in AmigaWorld, please contact: Susan Maizel, Customer Service Representative, AmigaWorld Magazine, 80 Elm Street, Peterborough, NH 03458. As a service to its readers, AmigaWorld will periodically publish the names of companies who are having difficulties meeting their customer obligations or who have gone out of business. Through our customer service representative, AmigaWorld assists readers with problems they may have with advertisers. Readers are advised to contact AmigaWorld before dealing with these companies: Computer Best, FutureSoft Applications. However, AmigaWorld does not assume any liability for advertiser's claims.

To Receive FREE Product Information AMIGA



TEAR out the perforated card. Please print or type your name and address where indicated

CIRCLE

the numbers on the card that correspond to the reader service numbers on the advertisements that interest you.

READER SERVICE

ORDER

a one year subscription to AmigaWorld by circling 500 on the card.

MAIL

the card with your check, money order or U.S. currency to: AmigaWorld Reader Service Management Department P.O. Box 5170 Pittsfield, MA 01203-5170 Or, you may request billing.

LOOK FOR

your subscription in 10 to 12 weeks.

to put the proper postage on the card.

			No	vem	ber c	ard va	alid	unt	til Jai	nuary 3	31,	199	0.	
☐ Mr.		1	6	11 1	6 21	201	206	211	216 22	21 401	406	411	416	421
☐ Mrs.		3 4	7 8 9	12 1 13 1 14 1		202 203 204	208	213	217 22 218 22 219 22	23 403	407 408 409	413	418	423
☐ Ms. Name		5			0 25				220 22		410			
Company		26 27 28	31 32 33	36 4 37 4 38 4		226 227	232	237	241 24 242 24 243 24	47 427	431 432 433	437		447
		29 30	34	39 4	4 49	229	234	239	244 24 245 25	49 429	434	439	444	449
		51 52	56 57	61 6 62 6			256 257		266 27 267 27		456 457		466 467	
City/State/Zip		53 54 55	58 59	63 6 64 6	8 73	253 254	258 259	263 264	268 27 269 27 270 27	73 453 74 454	458	463 464	468 469	473 474
Telephone		76 77	81 82	86 9 87 9	2 97	276 277	281 282	286 287	291 29 292 29	96 476 97 477	481	486 487	491 492	496 497
A. Do you own an Amiga?	☐ 22. Animation ☐ 24. CAD/CAM ☐ 23. Sound/Speech ☐ 25. Other	78 79 80	83 84 85	89 9	3 98 4 99 5 100	279	284	289	293 29 294 29 295 30	99 479	483 484 485	489	494	499
B. If no, will you purchase one of the following? 3. Amiga 500 6. Other (please specify) 6. Amiga 2000 7. I currently have no	E. Which peripherals will you purchase in the next 12 months? (Please choose all that apply.) 26. Monitor 32. Gen Lock or Frame	103 104	107 108 109	111 110 112 11 113 110 114 111	122 123 124	303 304	307 308 309	313	317 32 318 32 319 32	22 502 23 503 24 504	507 508 509	512 513 514	518 519	522 523 524
C Would you purchase an Amiga magazine which had a bound-in disk of demo programs, tutorials, etc.? 8 Yes 9 No	□ 27. Dot Matrix Printer □ 28. Modem □ 33. Music Hardware □ 29. Memory Expansion □ 34. Color Printer □ 30. 3½" Floppy Drive □ 35. Laser Printer □ 31. Hard Disk Drive	126 127 128	131 1 132 1 133 1	136 14 137 14 138 14 139 14	146 147 148	326 327 328	331 332	336 337 338	320 32 341 34 342 34 343 34 344 34	16 526 17 527 18 528	510 531 532 533 534	536 537 538	541 542 543	546 547 548
D. Which software packages will you purchase in the next 12 months? (Please choose all that apply.) 10. Entertainment 17. Database Management 11. Word Processing ment 12. Communications 18. Financial Management 13. Spreadsheets ment 14. Home Productivity 19. Graphics 15. Programming 20. Education 16. Video 21. Music	F. If you are not a subscriber, please circle 499 on this card. G. If you would like a one year subscription to AmigaWorld (12 issues), please circle 500 on this card. Each subscription is \$29.97. Canada and Mexico \$38.97. Foreign Surface, \$49.97. Foreign Armall \$84.97. (U.S. Funds Drawn on U.S. Bank). Orders from outside of North America must be prepaid. Please allow 10–12 weeks for delivery.	150 151 152 153 154 155 176 177 178	135 1 156 1 157 1 158 1 159 1 160 1	61 1662 167 63 168 168 64 168 65 170 86 19 87 196 88 190	150 171 172 173 174 175 196 197 198	330 351 352 353 354 355 376 377 378	335 356 357 358 359 360 381 382 383	340 361 362 363 364 365 386 387 388	345 35 366 37 367 37 368 37 370 37 391 39 392 39 393 39 394 39	50 530 11 551 12 552 13 553 14 554 15 555 16 576 17 577 18 578	535 556 557 558 559 560 581 582 583 583	540 561 562 563 564 565 586 587 588	545 566 567 568	550 571 572 573 574 575 596 597
				90 196					395 40		585			

November card valid until January 31, 1990.

1	6	11			201	206	211	216	221	401	406	411	416	421	
2	7	12			202	207	212	217	222	402	407	412		422	
3	8	13			203	208	213	218	223	403	408	413	418	423	
5	9	14			204	209	214	219	224	404	409	414	419	424	
5	10	15	20	25	205	210	215	220	225	405	410	415	420	425	
26	31	36	41	46	226	231	236	241	246	426	431	436	441	446	
27	32	37	42		227	232	237	242	247	427	432	437	442	447	
28	33	38			228	233	238	243	248	428	433	438	443	448	
29	34	39			229	234	239	244	249	429	434	439	444	449	
30	35	40	45	50	230	235	240	245	250	430	435	440	445	450	
51	56	61	66	71	251	256	261	266	271	451	456	461	486	471	
52	57	62	67	72	252	257	262	267	272	452	457	462	467	472	
53	58	63	68	73	253	258	263	268	273	453	458	463	468	473	
54	59	64	69	74	254	259	264	269	274	454	459	464	469	474	
55	60	65	70	75	255	260	265	270	275	455	460	465	470	475	
76	81	86	91	96	276	281	286	291	296	476	481	486	491	496	
77	82	87	92	97	277	282	287	292	297	477	482	487	492	497	
78	83	88	93	96	278	283	288	293	298	478	483	488	493	498	
79	84	89	94	99	279	284	289	294	299	479	484	489	494	499	
80	85	90	95	100	280	285	290	295	300	480	485	490	495	500	
101	106	111	116	121	301	306	311	316	321	501	506	511	516	521	
102	107	112	117	122	302	307	312	317	322	502	507	512	517	522	
103	106	113	118	123	303	308	313	318	323	503	508	513	518	523	
104	109	114	119	124	304	309	314	319	324	504	509	514	519	524	
105	110	115	120	125	305	310	315	320	325	505	510	515	520	525	
126	131	136	141	146	326	331	336	341	346	526	531	536	541	546	
127	132	137	142	147	327	332	337	342	347	527	532	537	542	547	
128	133	138	143	148	328	333	338	343	348	528	533	538	543	548	
129	134	139	144	149	329	334	339	344	349	529	534	539	544	549	
130	135	140	145	150	330	335	340	345	350	530	535	540	545	550	
151	156	161	166	171	351	356	361	366	371	551	556	561	566	571	
152	157	162	167	172	352	357	362	367	372	552	557	562	567	572	
153	158	163	168	173	353	358	363	368	373	553	558	563	568	573	
154	159	164	169	174	354	359	364	369	374	554	559	564	569	574	
155	160	165	170	175	355	360	365	370	375	555	560	565	570	575	
176	181	186	191	196	376	381	386	391	396	576	581	586	591	596	
177	182	187	192	197	377	382	387	392	397	577	582	587	592	597	
178	183	188	193	198	378	383	388	393	398	578	583	588	593	598	
4 700	184	189	194	199	379	384	389	394	399	579	584	589	594	599	
179	185														

☐ Mr.	
☐ Mrs.	
☐ Ms.	Name
	Title
	Address
	City/State/Zip
	Telephone

A.	Do	you	OWN	an	Amiga?			
		. Ye	S			2.	No	

- B. If no, will you purchase one of the following?

 3. Amiga 500 6 Other (please 4. Amiga 2000 ☐ 6. Other (please specify)
- ☐ 7. I currently have no ☐ 5. Amiga 2500
- purchasing plans.
- C. Would you purchase an Amiga magazine which had a bound-in disk of demo programs, tutorials, etc.?

 8. Yes 9. No
- D. Which software packages will you purchase in the next 12 months? (Please choose all that apply.)

 ☐ 10. Entertainment ☐ 17. Database Management

 ☐ 11. Word Processing ment
- ☐ 18. Financial Manage-☐ 12. Communications
 ☐ 13. Spreadsheets
- □ 13. spreadsheets ment □ 14. Home Productivity □ 19. Graphics □ 15. Programming □ 20. Education □ 16. Video □ 21. Musica ☐ 20. Education ☐ 21. Music

- ☐ 23. Sound/Speech □ 25. Other
- E. Which peripherals will you purchase in the next 12 months? (Please choose all that apply.)
- ☐ 26. Monitor ☐ 32. Gen Lock or Frame Grabber

 Grabber

 33. Music Hardware
- | 27. Dot Matrix Printer | 28. Modem | 33. Music Hardw | 29. Memory Expansion | 34. Color Printer | 30. 3½" Floppy Drive | 35. Laser Printer | 31. Hard Disk Drive | 36. Printer | 36. Printer | 37. Printer | 37. Printer | 37. Printer | 37. Printer | 38. P
- F. If you are not a subscriber, please circle 499 on this
- G. If you would like a one year subscription to AmigaWorld (12 issues), please circle 500 on this card. Each subscription is \$29.97. Canada and Mexico \$38.97, Foreign Surface, \$49.97, Foreign Airmail \$84.97 (U.S. Funds Drawn on U.S. Bank). Orders from outside of North America must be prepaid. Please allow 10–12 weeks for delivery.

To Receive FREE Product Information



TEAR

out the perforated card. Please print or type your name and address where indicated.

CIRCLE

the numbers on the card that correspond to the reader service numbers on the advertisements that interest you.

READER SERVICE

ORDER

a one year subscription to AmigaWorld by circling 500 on the card.

MAIL

the card with your check, money order or U.S. currency to: AmigaWorld Reader Service Management Department P.O. Box 5170 Pittsfield, MA 01203-5170 Or, you may request billing.

LOOK FOR

your subscription in 10 to 12 weeks.

REMEMBER

to put the proper postage on the card.



PLEASE USE FIRST CLASS LETTER POSTAGE

AmigaWorld
Reader Service
Management Department
P.O. Box 5170
Pittsfield, MA 01203-5170

Illiania II additional II additional II additional II

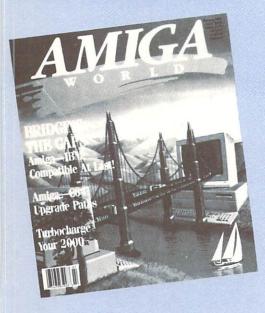


PLEASE USE FIRST CLASS LETTER POSTAGE

AmigaWorld
Reader Service
Management Department
P.O. Box 5170
Pittsfield, MA 01203-5170



Subscribe Now And Save 37% OFF The Cover Price



- AmigaWorld...the only high-quality Amiga-specific magazine on the market. It's as fresh and dazzling as the computer itself!
- AmigaWorld...where expert authors will lead you through the exciting and revolutionary features of the Amiga!
- AmigaWorld...helping you discover and utilize a whole new world of computer graphics and sounds!
- AmigaWorld...because creative computing was never so exciting and easy!

Get 12 Issues
of AmigaWorld for
\$29.97.
That's 37% Off The
Basic Newsstand Price!

The IDG Communications Guarantee

As the world's largest publisher of computer-related information, we unconditionally guarantee your Amiga World subscription. If you're not completely satisfied, tell us. We'll refund the full price of your subscription—no questions asked.

YES! I want to save 37% off the newsstand rate. Enter my 12 issue subscription to *AmigaWorld* for the low subscription price of \$29.97. If I'm not satisfied at any time, I will receive a full refund—no questions asked!

	☐ Bill Me	☐ Payme	ent Enclosed
Name			
Address			
Please makes ch Canada & Mexico on U.S. Bank). P	necks payable to And \$38.97, Foreign Strepayment is required.	migaWorld. Surface \$49.97 Fore	ign Airmail \$84.97 (U.S. Funds di urface and Foreign Airmail orders very.
	A	MIG	'A 490
price of \$29		t satisfied at	the newsstand rate. En Id for the low subscript any time, I will receive
	☐ Bill Me	☐ Payme	ent Enclosed
Name			
Address			
Please makes ch Canada & Mexico on U.S. Bank), P	ecks payable to An \$38.97, Foreign S repayment is require	nigaWorld. urface \$49.97. Forei	gn Airmail \$84.97 (U.S. Funds dr. urface and Foreign Airmail orders. ery.
	A	MIG.	49N
orice of \$29.	subscription	to AmigaWorl satisfied at a	he newsstand rate. Ent d for the low subscriptions time, I will receive to the low time, I will receive to the lowest time.
Name	□ Bill Me	□ Payme	nt Enclosed
			Zip
Please makes che Canada & Mexico on U.S. Bank). Pro	ecks payable to Am \$38.97, Foreign Su epayment is require	nigaWorld. urface \$49.97, Foreid	gn Airmail \$84.97 (U.S. Funds dra





BUSINESS REPLY MAIL

FIRST-CLASS PERMIT NO. 1247 BOULDER, CO

POSTAGE WILL BE PAID BY ADDRESSEE

IDG Communications/Peterborough AmigaWorld P.O. Box 50365 Boulder, CO 80321-0365

HaliHaadhadhadHlaadhalladhaldh



NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES

NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES



FIRST-CLASS PERMIT NO. 1247 BOULDER, CO

POSTAGE WILL BE PAID BY ADDRESSEE

IDG Communications/Peterborough AmigaWorld P.O. Box 50365 Boulder, CO 80321-0365

HaldhaalladdadHaadhallalladdadd



BUSINESS REPLY MAIL

FIRST-CLASS PERMIT NO. 1247 BOULDER, CO

POSTAGE WILL BE PAID BY ADDRESSEE

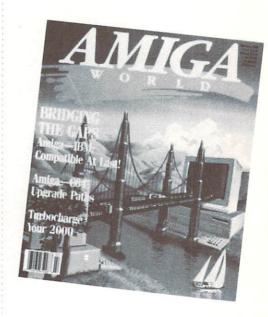
IDG Communications/Peterborough AmigaWorld P.O. Box 50365 Boulder, CO 80321-0365

Holdlandladdadllandladdadd

NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES



Subscribe Now And Save 37% OFF The Cover Price



 AmigaWorld...the only high-quality Amiga-specific magazine on the market. It's as fresh and dazzling as the computer itself!

 AmigaWorld...where expert authors will lead you through the exciting and revolutionary features of the Amiga!

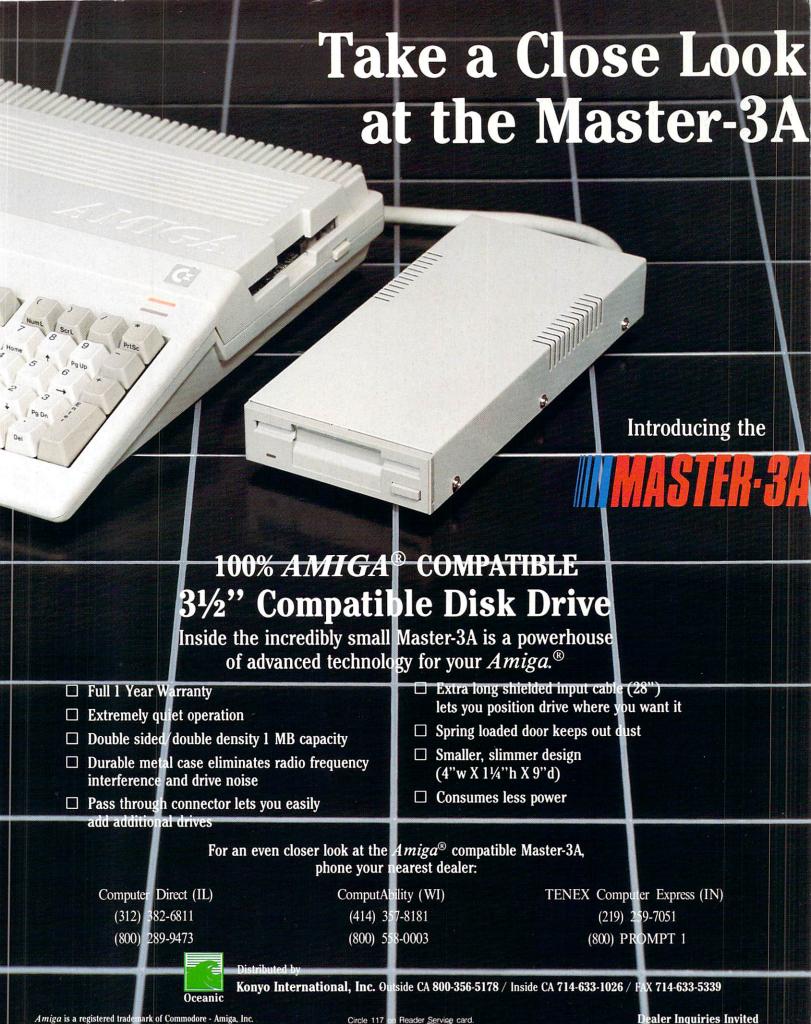
 AmigaWorld. . .helping you discover and utilize a whole new world of computer graphics and sounds!

 AmigaWorld...because creative computing was never so exciting and easy!

Get 12 Issues
of AmigaWorld for
\$29.97.
That's 37% Off The
Basic Newsstand Price!

The IDG Communications Guarantee

As the world's largest publisher of computer-related information, we unconditionally guarantee your AmigaWorld subscription. If you're not completely satisfied, tell us. We'll



Variable Dither -Computed internally at 30 bits per pixel (over

Unmatched.

10845

one billion colors). Gives you over 100,000 apparent colors on screen.

Sophisticated.

Flexible Text Rendering -Allows for anti-aliased fonts, Rainbow Fonts and Transparent Fonts and more.

Revolutionary.

User-Controllable Transparency - Allows real time control of the amount of transparency and the location of the light source.

Unlimited.

Transfer 24 - Digi-Paint 3 comes with Transfer 24 image processing software to give you support of all Amiga resolution modes and the same advanced image processing found with NewTek's best-selling Digi-View Gold Video Digitizer.

C= Commodore

Super BitMaps with Auto-Scrolling - Realtime scrolling on up to 1024 pixels high or wide image with full overscan display.

Flexible.

Colorize - Play Ted Turner and add color to black-and-white images or change colors on already colored images.

Powerful.

Texture Mapping with Anti-Aliasing - Gives you super-fast warping and stretching of any image.

Intuitive.

100% Assembly Language - Makes Digi-Paint 3 the fastest HAM paint program ever!

The <u>Ultimate</u> Paint Program: DIGI-PAIN1

For more information call NewTek at 800-843-8934 or 913-354-1146

Digi-Paint 3, Digi-View Gold and Transfer 24 are trademarks of NewTek Inc.

